

The Department of Statistics

The Department of Statistics at LSE is one of the oldest and most distinguished in the UK. It has a rich research portfolio covering core areas of statistical inference and real applications, particularly in the economic, financial, actuarial, social and industrial arenas. The close collaboration between departments, its London location and strong international partnerships are reflected in the research life of the Department of Statistics through the members of staff, PhD students, postdoctoral research fellows and the thriving visitor and seminar programmes.



Entry Requirements

Entry requirements to the MSc Statistics (Social Statistics) are a good BSc degree (at least upper second class honours) with a significant mathematical content such as actuarial science, statistics, econometrics, mathematical economics or mathematics. Please note this list is not exhaustive. Well-qualified applicants who do not meet this requirement will be considered on merit.

Overseas students should consult the section on equivalence of non-UK qualifications at the Graduate Admissions website below.

How to Apply

You should apply online here:

lse.ac.uk/study/graduate/home.aspx

You will need to click on the Apply Online icon and follow the instructions.

You will also be given access to the Graduate Application Tracker via LSE for You, which will reflect the personal details held in the School's database and the up-to-date status on your application.

How to contact us:

For further general information about the MSc programmes please contact the MSc Administrator at the Department of Statistics or visit the Departmental website:

lse.ac.uk/statistics/home.aspx



October 2016



Statistics

Statistical methodology and its interface with the social sciences

MSc

STATISTICS
(SOCIAL STATISTICS)

MSc Statistics (Social Statistics)

The MSc Statistics (Social Statistics) aims to provide high-level training in the theory and application of modern statistical methods, with a focus on methods commonly used in the social sciences. You will gain insights into the design and analysis of social science studies, including large and complex datasets, study the latest developments in statistics, and learn how to apply advanced methods to investigate social science questions.

The programme will prepare graduates for work within the public sector, market research organisations and survey research organisations, or for further study. There is a high demand for graduates with training in advanced statistical methods and an interest in social science applications.

Winton Prizes

The Department of Statistics has joined forces with Winton to award two annual £500 prizes to recognise academic excellence on the MSc Statistics, MSc Statistics (Social Statistics) and MSc Statistics (Financial Statistics) programmes. The first is awarded to the student who attains the highest overall mark in their exams. The second is awarded to the research branch student who produces the best dissertation.



Degree Structure

Our taught postgraduate courses are based around lectures, with problem classes and computer workshops. Students will gain hands-on experience of data analysis using R and Stata and submit written reports on their work for individualised feedback.

Most courses are assessed by a two-hour exam in the summer term although some contain an element of course work. Please note that a small number of courses will be assessed by an exam during Week 0 of Lent Term. Please see the course guides on our website for more information.

Students must take courses to the value of **four full units**. The compulsory courses provide training in fundamental aspects of probability and statistical theory, the theory and application of generalised linear models (for categorical data), as well as developing practical skills in programming and data analysis. These courses provide the foundations for options on more advanced statistical models for multivariate, multilevel and longitudinal data. Other options include survey methods, causal inference and spatial analysis.

MSc Statistics (Social Statistics) – 9 Months

i. Two compulsory courses:

- ST425 Statistical Inference: Principles, Methods and Computation (F)
- ST411 Generalised Linear Modelling and Survival Analysis (H)

ii. One optional half-unit from:

- ST405 Multivariate Methods (H)
- ST416 Multilevel Modelling (H)
- ST442 Longitudinal Data Analysis (H)

iii. Optional courses to the value of two full units from:

- Any course(s) not selected from above list
- ST421 Developments in Statistical Methods (H)
- ST443 Machine Learning and Data Mining (H)
- ST444 Statistical Computing (H)
- MY456 Survey Methodology (H)
- MY457 Causal Inference for Observational and Experimental Studies (H)
- EC484 Econometrics (F)
- GY460 Techniques of Spatial Economic Analysis (H)
- SA481 Population Analysis: Methods and Models (H)

H = Half Unit, F = Full Unit

Other courses from the Statistics and other departments may be taken with permission.

MSc Statistics (Social Statistics) (Research) – 12 Months

The research branch is similar to the MSc Statistics (Social Statistics) nine-month programme but involves a compulsory dissertation which replaces one unit of optional courses. Dissertation topics are chosen in November, usually from a list provided by academic staff. Students then work on their project for the rest of the year, under the guidance of their supervisor, with a submission deadline in late August.

Graduate Careers

There are excellent prospects for employment and further study for our graduates. Opportunities for MSc Statistics (Social Statistics) graduates include positions in the public sector (including government departments), market research, survey organisations, NGOs and academic research.