

## Course Information Sheet for entry in 2023-24: MSc in Evidence-Based Health Care (Medical Statistics)



### About the course

This is a course for health professionals who wish to strengthen their statistical skills and ability to analyse data. Students will gain confidence in carrying out the methods that are widely used in medical statistics, and interpreting the results for the practice of evidence-based health care.

This course is designed for doctors, nurses, pharmacists, midwives and other healthcare professionals, seeking to consolidate their understanding and ability in medical statistics. Core modules introduce the students to methods for observational and clinical trials research. Optional modules offer the students skills in growth areas such as systematic review, meta-analysis, and big data epidemiology, or specialist areas such as statistical computing, diagnosis and screening research and others.

The course aims to give students high competence in the concepts, methods, terminology and interpretation of medical statistics; and hence, enhance their ability to carry out their own research and to interpret published evidence.

Students should gain:

- competence in execution and interpretation of core statistical techniques used by medical statisticians, particularly those used in multivariable analyses: multiple linear regression, logistic regression, and survival modelling, statistical analysis plans and statistical reporting
- competence in execution and interpretation of core statistical techniques used by medical statisticians in clinical trials
- competence in execution and interpretation of four other areas, selected by the student from the following options: meta-analysis; systematic review; big data epidemiology; statistical computing; diagnosis and screening; study design and research methods
- hands-on experience, supervised by a senior member of our medical statistics team, of the analysis or meta-analysis of healthcare data, in order to address a question in evidence-based health care.

Compared to the main EBHC course, MSc in Evidence-Based Health Care, this will suit those with basic statistical understanding who now seek deeper understanding on a broader base of statistical methods.

This is a joint course offered between the Nuffield Department of Primary Care Health Sciences and the Department for Continuing Education. The programme works in collaboration with the renowned Centre for Evidence-Based Medicine in Oxford.

This course has teachers and contributors who are internationally recognised leaders in the field of evidence-based practice and teaching. The flexible structure of the course has been devised to fit with the structure of specialist training and to accommodate student choice.

Teaching is tailored to non-statisticians and delivered by an experienced team of tutors from University of Oxford who bridge the disciplines of medical statistics and evidence-based health care.

### Course structure

The MSc in Evidence-Based Health Care (Medical Statistics) is a part-time course. There are two compulsory modules, four optional modules (two must be from group 1 and then either one from group 1 and one from group 2, or two more from group 2) and a dissertation.

Compulsory Modules:

- Essential Medical Statistics
- Statistics for Clinical Trials

Optional Modules currently available- 1:

- Meta-analysis
- Big Data Epidemiology
- Statistical Computing for Health Care Research
- Clinical Prediction Rules

Optional Modules currently available - 2:

- Introduction to Study Design and Research Methods
- Systematic Reviews or Complex Reviews
- Evidence-based Diagnosis and Screening

This course guides students through core and optional modules and a dissertation to a qualification in the application of medical statistics to evidence-based health care.

The majority of modules are run over either an eight, or fifteen week learning cycle. Most modules are either delivered fully online or in a blended format, however, some modules are only delivered with a blended format that includes a five day attendance in Oxford, and some are only run entirely online. In any given year, not all delivery formats for a module may be available.

**Blended format:** an initial period of self-directed study is spent on introductory activities using a Virtual Learning Environment (VLE). This is followed by a week spent in Oxford for supported face-to-face teaching, and then a further period of Post-Oxford activities (a mixture of self-directed and supported distance learning also delivered through the VLE). The final week of each module is for self-directed personal study, shortly followed by the assignment submission.

**Fully online format:** These are delivered through the VLE with the first week allocated to self-directed introductory activities. There is then either:

- a number of units to work through which are released week by week. Each unit includes a mixture of supported and self-directed learning with discussion forums, tasks and activities. Students then have five weeks of self-directed personal study with use of a revision forum and the requirement to submit an assignment electronically the following week. Courses usually run over a 15 week period.

Or

- an intensive week of five consecutive days of synchronous and asynchronous teaching sessions, and then a further period of activities (A mixture of self-directed and supported distance learning also delivered through the VLE). The final week of each module is for self-directed personal study, shortly followed by the assignment submission. Courses usually run over an 8 week period.

Modules are spaced out throughout the academic year, allowing a choice of options to be taken over the two to four years students attend the course. Not all modules are guaranteed to run every year.

Further details about the course and modules can be found on the course page, on the Department for Continuing Education Website (See Further Information and Enquiries).

### **Part-time attendance details**

As a part-time student, you will be required to attend a minimum of two modules (one of which must be a compulsory module) 'in person' in Oxford. Each 'in person' module requires you to attend a week (five days) in Oxford for supported face to face teaching. Your other four modules can be made up of a mix of 'in person', or fully online modules. For additional note: All students are required to attend a minimum of one module in each academic year on course. This can either be 'in person' or fully online.

### **Supervision**

The allocation of graduate supervision for this course is the responsibility of the Nuffield Department of Primary Care Health Sciences and/or the Department for Continuing Education 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 Nuffield Department of Primary Care Health Sciences and/or the Department for Continuing Education. Students are usually expected to either meet, or contact their supervisor at least once per month.

### **Assessment**

Assessment for each module will be based on a written assignment. The dissertation will be on a topic chosen in consultation with your supervisor and the course director and should not normally exceed 15,000 words.

Students typically submit a 'Notification of Provisional Title', a calendar year before their dissertation submission date. A full draft is usually submitted two months prior to the submission deadline. The final submission is usually due on the last working day of September, for the given year of completion.

### **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

	<b>Part Time Only</b>
<b>Expected length</b>	2 to 4 years

## Costs

### Modular course fees

The fees for this course are charged on a modular basis. You will pay an annual course fee and an additional fee for each module studied. A minimum of two annual course fees are payable for this course. If this course includes a dissertation, three module fees will be charged for the dissertation.

#### Fees for the 2023-24 academic year

Fee status	Annual Course Fee	Fee per module	Total estimated fees
Home	£7,695	£2,340	Please see the department's website for further details
Overseas	£7,695	£2,340	

### 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.

### Additional cost information

This course has residential sessions in Oxford. You will need to meet your travel and accommodation costs in attending these sessions. Further, as part of your course requirements, you may need to choose a dissertation, a project or a thesis topic. 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.

If you are studying part-time your living costs may vary depending on your personal circumstances but you must still ensure that you will have sufficient funding to meet these 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>).