

1. Overview

Academic Year (student cohorts covered by specification)	2019/20			
Programme Title	Medical Statistics			
Programme Director	Kathy Baisley			
Awarding Body	University of London			
Teaching Institution	London School of Hygiene & Tropical Medicine			
Faculty	Epidemiology and Population Health			
Length of Programme (months)	MSc – Full time = 12 months, Part time = 24 months Exit award: PGDip – Full time = 8 months, Part time = 16 months			
Entry Routes	MSc			
Exit Routes	MSc/PGDip			
Award Titles	MSc in Medical Statistics (180 credits) Exit award: PGDip in Medical Statistics (120 credits)			
Accreditation by Professional Statutory and Regulatory Body	Royal Statistical Society			
Relevant PGT QAA Benchmark Statement and/or other external/internal reference points	http://www.qaa.ac.uk/docs/qaa/subject-benchmark-statements/sbs-mathematics-15-masters.pdf			
Level of programme within the Framework for Higher Education Qualifications (FHEQ)	Masters (MSc) Level 7			
Total Credits	CATS:	180	ECTS:	90
HECoS	tbc			
Mode of Delivery	The main part of the programme is taught 'face-to-face' at LSHTM in London.			
Mode and Period of Study	Full time (12 months) or part time/split study (24 months)			
Cohort Entry Points	Annually in September			
Language of Study	English			
Re-sit Policy	https://www.lshtm.ac.uk/sites/default/files/Resits_Policy_Policy_Procedure.pdf			

Extenuating Circumstances Policy	https://www.lshtm.ac.uk/edu/taughtcourses/exams_assmt_staff/extenuating_circumstances_policy.pdf
Programme Description	The programme trains students from a variety of academic backgrounds to work as statisticians in various sectors including higher education, research institutions, the pharmaceutical industry, central government and national health services. It provides training in the theory and practice of statistics with special reference to clinical trials, epidemiology and clinical or laboratory research.
Date of Introduction of Programme (month/year)	1968
Date of production / revision of this programme specification (month/year)	July 2018

2. Programme Aims & Learning Outcomes

Educational aims of the programme
The aim of the programme – consistent with LSHTM’s mission to improve health worldwide – is to train students from a variety of academic backgrounds to work as statisticians in various sectors including higher education, research institutions, the pharmaceutical industry, central government and national health services. It provides a training in the theory and practice of statistics with special reference to clinical trials, epidemiology and clinical or laboratory research.
Programme Learning Outcomes
By the end of the programme, students will be expected to achieve the following learning outcomes – drawing on material taught across different elements and assessed in a variety of ways.
<ul style="list-style-type: none"> (i) Select appropriate study designs to address questions of medical relevance (ii) Select and apply appropriate statistical methods for analysing data typically encountered in medical applications, including binary, categorical, count, quantitative data; survival data; hierarchical data; data affected by measurement error and missingness (iii) Use a range of software packages to: organise and manage datasets; carry out statistical analysis; construct tables and figures; create programs to provide problem specific solutions. (iv) Interpret correctly the results of statistical analyses and critically evaluate the use of statistics in the medical literature (v) Communicate effectively with other statisticians and the wider medical community, including the ability to present results of statistical analyses through written and oral presentations (vi) Understand the principles behind statistical methods to allow future adoption and appreciation of new methodology, to develop problem specific solutions to new problems, and to provide a basis for the understanding of limitations and issues surrounding currently used methods
Teaching and Learning Strategy
The programme is taught through a variety of teaching methods including: lectures, small group seminars, practicals, and group work with peers. All elements of the programme have specific learning objectives, with content designed to help students achieve these outcomes. Students are expected to learn through both directed and self-directed study.
Assessment Strategy
The programme is assessed through individual module assessments (which may include essays, other written coursework, short written exams, practical exams, group work, presentations or other methods), formal summer exams, and a project report. Such tasks are designed to assess, via the most appropriate method, whether learning objectives have been met.

3. Programme Structure and features, modules, credit assignment and award requirements:

Full-time Masters	Term 1	Term 2	Term 3	Total Credits
Compulsory Modules	5	3		105
Recommended Modules		1	1	30
Projects			1	45

Any optional (i.e. recommended non-compulsory) modules listed are indicative and may change from year to year for reasons including staff availability, student demand, and enhancements to programmes as part of ongoing review. <https://www.lshtm.ac.uk/study/courses/changes-courses>

Term		Module Code	Module Title	Module Type (compulsory or recommended)	Credits (CATS)	Contact hours
1	AB1	2001	Basic Epidemiology	Compulsory	10	30
1	AB1	2031	Introduction to Statistical Computing	Compulsory	10	45
1	AB1	2033	Clinical Trials	Compulsory	10	30
1	AB1	2038	Foundations of Medical Statistics	Compulsory	25	90
1	AB1	2475	Robust Statistical Methods	Compulsory	5	13
2	C1	2462	Generalised Linear Models	Compulsory	15	50
2	C2	2402	Statistical Methods in Epidemiology	Compulsory	15	38.5
2	D1	2465	Analysis of Hierarchical and Other Dependent Data	Recommended	15	48
2	D2	2463	Survival Analysis and Bayesian Statistics	Compulsory	15	50
3	E	2412	Advanced Statistical Methods in Epidemiology	Recommended	15	48
3	E	2450	Advanced Statistical Modelling	Recommended	15	42.5

4: Entry Requirements

Criteria for admission

General entrance requirements

Applicants must normally satisfy LSHTM's general entrance requirements and additional programme-specific entrance requirements to be considered for admission. Applications must be submitted in accordance with the procedures and deadlines given in the web-based or printed prospectus.

In order to be admitted to a postgraduate taught degree programme of the London School of Hygiene & Tropical Medicine, an applicant must:

- a) hold a first degree at Second Class Honours standard in a relevant discipline, a degree in medicine at the same standard, or another degree of equivalent awarded by an overseas institution recognised by UK Naric or Barrons.

OR

- b) hold a professional qualification appropriate to the programme of study to be followed obtained by written examinations and judged by the School to be equivalent to a Second Class Honours degree or above.

OR

- c) have relevant professional experience or training which is judged by the School to be equivalent to a Second Class Honours degree or above.

AND

satisfy any additional requirements where prescribed for admission to a specific programme.

For the MSc Medical Statistics, it is preferred that students should normally have obtained a mathematically-based first degree which includes some statistics. Graduates from other fields who have quantitative skills and some familiarity with statistical ideas may also apply.

In addition, all **suitable** MSc Medical Statistics candidates will be offered an interview by the programme's Admissions Team.

English language entry requirements

Band B

It is essential that all students have a good command of the English language to benefit from their studies at the School.

As part of the application process, applicants are required to demonstrate how they meet the School's minimum English language requirements. This is particularly important for applicants requiring a Tier 4 Student visa, as the UK Home Office dictates that every student from outside the UK and European Union (EU) must show evidence of a minimum level of English language ability (called CEFR1 B2 level), in order for a Tier 4 Student visa to be issued for entry to the UK.

Additionally, the School asks applicants to have minimum English language proficiency levels that are necessary for our academic programmes. These levels are higher than the CEFR B2 minimum level and also apply to EU applicants, although these will not normally require a Tier 4 Student visa.

The academic English language requirements for each of the School's programmes are categorised into one of three profiles A, B or C. For information on these three profiles, please refer to the LSHTM English Language Requirement Policy: <https://www.lshtm.ac.uk/files/english-language-requirements.pdf>