



**UNIVERSITY  
OF LONDON**

# Programme Specification 2018–2019

## Epidemiology

MSc

PGDip

PGCert

Short courses

**Important document – please read**



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## Important information regarding the Programme Specification

### About this document

Last revised: 19 June 2018

The Programme Specification gives a broad outline of the structure and content of the programme, the entry level qualifications, as well as the learning outcomes students will achieve as they progress. Some of the information referred to in this programme specification is included in more detail on the University of London website. Where this is the case, links to the relevant webpage are included.

Where links to external organisations are provided, the University of London is not responsible for their content and does not recommend nor necessarily agree with opinions expressed and services provided at those sites.

If you have a query about any of the programme information provided, whether here or on the website, registered students should use the *Ask a question* tab in the [student portal](#); otherwise the *Contact Us* button on each webpage should be used.

### Terminology

The following language is specific to the Epidemiology programmes:

**Modules:** Individual units of a programme are called modules. Each module is a self-contained, formally structured learning experience with a coherent and explicit set of learning outcomes and assessment criteria.

### Key revisions made

Programme specifications are reviewed annually. The Senate Postgraduate Teaching Committee of the London School of Hygiene & Tropical Medicine (LSHTM) providing academic direction, as part of its annual review of standards, confirms the programme structure and the educational aims and learning outcomes, and advises on any development in student support.

Any changes that may impact on continuing students are listed below. For all new students, the programme and general information provided in this document is correct and accurate and will be applicable for the current year.

### Significant changes made to the programme specification 2018-2019:

- From 2018-2019, EPM102 *Statistics with Computing* has been renamed *Statistics for Epidemiology*.
- From 2018-2019, students studying modules CTM203 and CTM209 will no longer be assessed by a written examination and an assessed assignment. Instead, students will be required to submit two assessed assignments for each module.

## Title and name of awards

### Programme name

Epidemiology

### Award titles

Students are registered on one of the following:

- Master of Science Epidemiology (MSc)
- Postgraduate Diploma Epidemiology (PGDip)
- Postgraduate Certificate Epidemiology (PGCert)

### Exit awards

- Postgraduate Diploma Epidemiology (PGDip)
- Postgraduate Certificate Epidemiology (PGCert)

### Individual modules

There is also provision for individual modules to be studied on a stand-alone basis.

### Level of the programmes

The Framework for Higher Education Qualifications in England, Wales and Northern Ireland forms part of the UK Quality Code for Higher Education of the [Quality Assurance Agency for Higher Education](#) (QAA).

The awards are placed at the following Levels of the Framework for Higher Education Qualifications (FHEQ):

- |                       |         |
|-----------------------|---------|
| • MSc Epidemiology    | Level 7 |
| • PGDip Epidemiology  | Level 7 |
| • PGCert Epidemiology | Level 7 |

Individual modules are offered at Level 7.

### Relevant QAA subject benchmarks

Not applicable

### Awarding body

University of London

### Registering bodies

University of London and London School of Hygiene & Tropical Medicine.

<https://london.ac.uk>;  
[www.lshtm.ac.uk/](http://www.lshtm.ac.uk/)

### **Academic direction**

London School of Hygiene & Tropical Medicine (LSHTM)

### **Accreditation by professional or statutory body**

Not applicable

### **Language of study and assessment**

English

### **Mode of study**

Flexible and online study

### **Blended learning**

Students may also be permitted to study up to two elective modules by blended learning in place of distance learning modules. Blended learning enables a student to combine distance learning with a period of part-time study at the London School of Hygiene & Tropical Medicine. An additional fee will be payable.

More details about blended learning can be found in the [Programme Regulations](#).

### **Programme structures**

The MSc Epidemiology consists of:

- Four compulsory EPM1 modules
- Two compulsory EPM2 modules
- Two elective EPM3 modules selected from a list of options
- One additional elective module selected from a list of options
- A compulsory Project Report
- A final qualifying examination paper (drawing on material from the compulsory modules)

The PGDip Epidemiology consists of:

- Four compulsory EPM1 modules
- Two compulsory EPM2 modules
- Two elective EPM3 modules selected from a list of options

The PGCert Epidemiology consists of:

- Four compulsory EPM1 modules

### **Individual modules**

A selection of modules are available to be studied on an individual basis. You may take as many modules as you wish without registering for an award within the Epidemiology programme.

Full details of the modules available are included in the [Programme Regulations](#).

## Exit awards

Students who for academic or personal reasons are unable to complete the 180 credits required for the MSc award or the 120 credits for the PGDip award may exit with the successful completion of 120 or 60 credits and be awarded a PGDip or PGCert respectively provided they fulfil the relevant criteria. Exit awards are granted at the discretion of the Board of Examiners and once a student has accepted an exit award they will not be permitted to continue their study of the same award with the University of London, unless they return the exit award prior to continuing their studies.

Full details of the Scheme of Award available are included in the [Programme Regulations](#).

## Maximum and minimum periods of registration

The maximum and minimum period of registration, from a student's effective date of registration, are:

	Minimum	Maximum
<b>MSc Epidemiology</b>	Two years	Five years
<b>PGDip Epidemiology</b>	Two years	Five years
<b>PGCert Epidemiology</b>	One year	Five years
<b>Individual modules</b>	One year	Two years

Study materials are made available after registration and payment of the applicable fee, for the start of the academic year.

## Credit value of modules

Further information about the credit systems used by universities in the UK and Europe is available in:

The Higher Education Credit Framework for England,  
<http://www.qaa.ac.uk/en/Publications/Documents/Academic-Credit-Framework.pdf>

The Framework for Higher Education Qualifications in England,  
<http://www.qaa.ac.uk/en/Publications/Documents/Framework-Higher-Education-Qualifications-08.pdf>

The European Credit Transfer and Accumulation System,  
[http://ec.europa.eu/education/tools/ects\\_en.htm](http://ec.europa.eu/education/tools/ects_en.htm)

Where credits are assigned to each module of a programme, credit indicates the amount of learning carried out in terms of the notional number of study hours needed, and the specified Framework for Higher Education Qualifications in England (FHEQ) credit level indicates the depth, complexity and intellectual demand of learning involved. The details below indicate the UK credits and the European Credit Transfer and Accumulation System (ECTS) values.

For the Epidemiology programme, credits are assigned to the modules as follows:

- 15 UK credits for each compulsory and elective module;
- 45 UK credits for the project.

Each award equates to the following number of credits:

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- MSc Epidemiology - 180 UK credits or 90 ECTS credits
- PGDip Epidemiology - 120 UK credits or 60 ECTS credits
- PGCert Epidemiology - 60 UK credits or 30 ECTS credits

One UK credit equates to a notional ten hours of study.

### Recognition of Prior Learning

This programme allows for recognition of prior learning.

Details on how to apply for [recognition of prior learning](#) can be found on our website. See the [General Regulations](#) (Section 3) and [Programme Regulations](#) for further information.

## Entrance requirements

### Postgraduate entrance requirements

Full details of entrance requirements are provided on the University of London website under the [Requirements](#) section.

Applicants must submit an application in line with the procedures and deadlines set out on the University of London [website](#).

Details of the programme specific requirements are given on the [programme page](#), under the Requirements tab.

### English language requirements

Applicants must satisfy the English language requirements for the programme. Acceptable scores are detailed under English language requirements on the LSHTM webpage.

Where an applicant does not meet the prescribed English language proficiency requirements but believes that they can demonstrate the requisite proficiency for admission the University may, at its discretion, consider the application.

Detailed information on the [English language](#) requirement tests are given on the LSHTM website.

### Computer and Internet access requirements

Students will require regular access to a computer (or mobile device\*) with an internet connection to use the University of London website and the Student Portal to access the LSHTM's online learning site where many of the programme's study resources are located.

The computer should have at least the following minimum specification:

- a web browser (Firefox is recommended). This must accept cookies and have JavaScript enabled;
- screen resolution of 1024 x 768 or greater;
- sufficient internet bandwidth to enable downloading of essential learning materials that are up to approximately 50MB in size.

and the following applications installed:

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- a computer that accepts Microsoft Word formats (.doc and .docx);
- Microsoft Excel software;
- a pdf reader;
- Parallel software, with Windows installed, if using a non-Windows based PC such as a Mac (for EPM302 only).

\* Please note: full mobile access is not available for all modules.

\* *Full mobile access to online resources is not available for all modules.*

### Additional requirements

- Students will need to use a calculator.
- A headset/microphone may be required to participate in “real time” online discussions.

### Students with access requirements

The University of London welcomes applications from disabled students and/or those who have specific access requirements. The University will make every effort to provide reasonable adjustments to enable those with specific access requirements to have the same chance as all other students to successfully complete their studies.

The University is committed to managing the application procedure and the programme itself to ensure that services are accessible for all students and that an inclusive environment is created. Students with a disability or others who may need special arrangements to assist in taking examinations (such as separate room or special aids) should complete the relevant section of the application form, or contact the [Inclusive Practice Manager](#). Requests will be considered by a University panel, whose purpose is to ensure that students with disabilities and/or access requirements are neither advantaged nor disadvantaged by such arrangements when compared with other students. These considerations remain separate from the academic selection processes.

For further information, see [Inclusive Practice Policy](#)

### Sources of funding and scholarships

Information about potential sources of funding and scholarships is updated annually and where available is included in the prospectus web pages.

For further information see <http://www.lshtm.ac.uk/study/funding/> and <https://london.ac.uk/applications/funding-your-study>

## Educational aims and learning outcomes of the programmes

These programmes aim to prepare students with the knowledge and skills to make valuable contributions to both epidemiological research and public health. Epidemiological methods are used increasingly in medical research, public health practice and health care evaluation to investigate the causes of disease, and to evaluate interventions to prevent or control disease. These programmes are mainly designed for those planning careers in epidemiological research, as well as academics in other health areas and other health



professionals. They are also suitable for those who need an understanding of epidemiology, such as medical journalists and scientific officers in government and industry. Successful completion of the MSc may allow students to progress to a higher research degree.

The main educational aims of these programmes are to offer a challenging scheme of study invigorated by research, which advances students' ability to develop the academic and practical skills needed as an epidemiologist. Students will be encouraged to develop a range of transferable and subject specific expertise using their initiative and working out problems for themselves.

The programmes aim to:

- develop knowledge and understanding of the fundamental skills needed to become competent in epidemiology;
- enable students to understand developments in the field of epidemiology;
- encourage independent critical and evaluative skills that can be used to apply independent scientific judgment;
- teach students how to apply the conceptual and practical tools needed to initiate research
- facilitate self-development into professionally organised and interactive individuals by practicing skills of selection, assimilation and communication.

The learning outcomes of the programmes are as follows:

**Knowledge, understanding, intellectual and cognitive**

Students will be able to:

- demonstrate knowledge and understanding of epidemiological methods, and their application in a range of health-related issues;
- demonstrate knowledge of the main types of epidemiological study and recognise key issues with their use;
- identify the sources of error and bias in epidemiological studies and suggest strategies to deal with them;
- demonstrate skills in handling data and presenting quantitative results;
- manage computerised epidemiological data;
- evaluate critically studies conducted by others (in terms of the question, the design, the method, how it was conducted and how it was analysed);
- choose appropriate designs for epidemiological studies (to a limited extent only for PGCert students);
- develop detailed protocols for epidemiological studies (to a limited extent only for PGCert students);
- carry out appropriate statistical analysis of epidemiological data and interpret results (to a limited extent only for PGCert students);
- acquire and apply more advanced epidemiological skills relating to specific fields of interest (e.g. non-communicable / communicable diseases, human genetic epidemiology, advanced statistical skills) and depending on student choice (PGDip and MSc students only);

- carry out and write up a substantial independent piece of epidemiological work (MSc students only).

### **Transferable skills**

Students will be able to:

- use problem solving skills in a range of situations;
- use fluent and effective communication and discussion skills in a written context;
- have a capacity to handle ideas and scrutinise information in critical, evaluative and analytical ways;
- manage their own learning, including working effectively to deadlines.

Students who pass the core EPM1 modules will have the essential introduction to a variety of methods, approaches and concepts in epidemiology. They will have an understanding of the fundamentals of epidemiology, including key statistical principles and will be able to demonstrate knowledge of the practical aspects needed for planning and conducting research. Core module students will also be able to show basic skills in writing research papers and searching and evaluating the scientific literature.

PGDip and MSc students who proceed to the EPM2 and elective modules will build on the foundations learnt from the core modules. These students will learn how to design their own epidemiological research study, prepare a grant application and develop further statistical knowledge and skills needed to analyse and interpret data from the common forms of epidemiological studies. Students will then choose from a range of options which further knowledge in specific areas.

MSc students will also apply the epidemiological skills they have learnt to a particular problem in an area of their own interest and produce a Project report.

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## **Learning, teaching and assessment strategies**

Learning is self-directed against a detailed set of learning objectives for each module using the materials provided. This includes reading and reflecting on computer-assisted learning (CAL) and/or paper-based materials which introduce, explain and apply the principles and methods covered in each module.

Each module is divided into sessions covering different topics. The sessions contain a number of elements designed to make learning manageable and to check on the progress they have made. Each session would usually contain:

- Aim of the session
- Learning objectives
- Activities to further students' understanding and skills and assess what they have learnt
- Feedback which follows each activity, giving the correct or optimal answer to questions posed, or discusses issues that have been raised
- Summary containing the key learning points of the session.

The CAL material and subject guides are supported by reading lists which give online links to relevant articles (usually via the LSHTM online library). For statistical modules, a practical

workbook of exercises is provided together with statistical software. Selected textbooks are provided for some Epidemiology modules, along with recommendations for further reading.

Students are encouraged to communicate with tutors and fellow students via an online discussion forum. In this way, students may ask questions, and develop and negotiate conclusions with others, which are key components in the acquisition of knowledge, understanding and transferable skills.

Most Epidemiology modules have at least one Formative Assignment (FA) for the students to complete. These do not count towards the final award but students are strongly encouraged to do these. The FAs give students an opportunity to i) apply their newly learnt knowledge and skills, thereby reviewing their progress and understanding, ii) highlight to tutors any difficulties relating to that topic, and iii) receive personal tutorial feedback on their work and their highlighted issues.

Assignments, essays, projects, reports, dissertations and other similar work must be the student's own work and must be written without the assistance of other people, except where they are expressly permitted to work as a group and submit a piece of work jointly. Where such a piece of work is submitted, all students working in the group will be required to submit a declaration for all such work, confirming their participation in completing the submitted work.

Advice and practical information on study techniques, planning and preparation for assessment is available in the LSHTM programme-specific Student Handbook (which is available online to students after registration) and [Academic Writing Handbook](#). Students manage their own learning and study schedule, but advice can be sought from the support team at any stage of the academic year.

Formal module assessment includes an unseen written paper examination and/or assessed assignment, depending on the module:

- Each module that is assessed by unseen written examination will consist of questions structured to allow students to show that they have acquired appropriate knowledge and understanding. The way that students manage data, solve problems, evaluate ideas and the organisational skills they use to structure answers allows the standard of intellectual and transferable skills to be assessed.
- Some modules are assessed entirely or in part by a written assessed assignment (AA). The AA gives students an opportunity to apply the skills taught in the module in a practical way that often reflects a real-life scenario. In some assignments, group work is involved while in others there is the opportunity to explore issues in depth, encouraging independent thinking and judgement.

In addition, there are two other assessed components of the MSc:

- The Additional Examination Paper (MSc only) draws on the material from all the compulsory modules and should be taken at the time when students attempt the last of the written papers for the MSc. It assesses not only the knowledge and understanding of the compulsory modules but also allows students to draw on material they have covered in elective modules and in their professional practice, and demonstrate depth of understanding.
- MSc students will also submit a Project Report. This will allow students to develop and deepen epidemiological concepts and skills learnt during the programme.

Students will be able to apply epidemiological skills to a real-life issue, and to analyse data or literature in depth. It also allows students to show independent research skills and their ability to think critically and develop original ideas. It will also test the student's ability to plan, and to produce an extended piece of clear and coherent writing.

Assessment criteria for the programme take into account the level at which these skills have been achieved.

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## Assessment methods

Each core EPM1 module (PGCert, PGDip and MSc) will be assessed by one two-hour and 15 minute unseen written examination with the exception of EPM105 *Writing and reviewing epidemiological papers* which will be assessed by a written assignment.

All other Epidemiology modules (PGDip and MSc) (with the exception of EPM201 *Study design: writing a grant application*) will be assessed by one two-hour and 15 minute unseen written examination and a written assignment. The mark awarded for each module will be weighted 70:30 (examination: assignment).

EPM201 *Study design: writing a grant application* will be assessed solely by a written assignment consisting of a full application to a funding body.

The Additional Examination Paper (MSc only) will be assessed by one three-hour and 15 minute unseen written examination which draws on material from all the compulsory modules and should be taken at the time when students attempt the last of the written papers for the MSc.

The Project Report (MSc only) will be assessed by submission of one written report of up to 10,000 words. It should be submitted in the final year of the degree.

The written examinations take place on one occasion each year, normally commencing in June. These are held at established centres worldwide.

## Individual modules

A student may choose whether or not to be formally assessed in the credit bearing individual modules for which they are registered. Students who choose to be formally assessed will be examined in the same way as students studying for a full award.

For full details of the dates of all examinations, refer to the [website](#).

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## Student support and guidance

The following summarises the support and guidance available to students:

- University of London [Student Guide](#): This provides information which is common to all students and gives information about matters of importance from the start of a student's relationship with the University of London through to their graduation.
- A University of London email account and web area for personal information management.
- [Programme Regulations](#)



- [The University of London Online Library](#): This provides access to a range of full-text, multidisciplinary databases where journal articles, book reviews and reports can be found.
- Employability skills module – guidance on how to manage your career in the future, available through the VLE.
- University of London library: Registered students may use the resources located within the Senate House library.

### **Support and guidance from LSHTM**

- The LSHTM online learning site (Moodle). This gives online access to the main module materials (which may also be sent in hard copy, depending on the module), module discussion forums, information on assignments, links to essential and recommended readings (where available), past examination papers and examiner reports, and study skills' resources.
- LSHTM online library resources.
- Student support staff are available to offer help and advice on administrative matters. Programme Directors can also be contacted for personal advice e.g. planning studies, advice on elective module options. Communication may either be via the online 'Student Support Help' discussion forum on Moodle or by email, and sometimes by Skype if needed.
- Each module has at least one Module Organiser (MO) and a team of tutors assigned to it. The tutor team provides academic support to those studying on specific modules, in the following ways:
  - assisting in interpreting and understanding the material presented by answering queries on the online discussion forums
  - grading and providing written feedback on assignments
  - offering some real-time 'webinars' in which students are encouraged to participate.
- The tutors are specialists in their subject area, and will change according to the module being followed at the time.
- A project supervisor works with students undertaking the project in the final year of the MSc.
- An LSHTM programme-specific Student Handbook, available on the LSHTM Moodle site, provides guidance on all aspects of the programme. It includes background information about the programme, advice on getting started, studying as a distance learner and organising study time, a description of the resources and programme materials available and how to access them, networking and support issues, procedures for assessment and examinations (including programme deadlines).
- Students are encouraged to exchange ideas with other students on the programme and to organize mutual support via email or other forms of communication. An online discussion forum 'Student Cafe' is available within the LSHTM Moodle site which is accessible to students only, while individual contact details can be made available

through the Student Network Directory (subject to student consent). This contains contact details of other students on the course so students can build up their own network if they wish (for example, to organise study groups).

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## **Quality evaluation and enhancement**

The University of London collaborates with the member institutions to deliver the University of London programmes. The policies, partnerships and systems are defined within the key documents: The Quality Framework, the [Quality Assurance Schedules](#), [Guidelines for Examinations](#), [General Regulations](#) and, for each programme, [programme specific regulations](#).

### **Parity of award standards**

Every programme of study is developed and approved by an academic institution of the University of London, or a consortium with representation by more than one academic institution to the same standards and requirements as would be applied in the institution/s concerned.

Learning materials are written and examinations are set and marked by academic staff who are required to apply the University's academic standards.

### **Review and evaluation mechanisms**

Procedures are in place to assure the standards of the award and the quality of the student experience, which include programme development, delivery, management, systematic monitoring and ongoing review and enhancement of all programmes. Improvements are made as necessary to ensure that systems remain effective and rigorous.

- Annual programme reports are produced for all programmes in order to review and enhance the provision and to plan ahead;
- Every year independent external examiners submit reports to confirm that the programmes have been assessed properly and meet the appropriate academic standards;
- Annual student information statistics are produced and are referenced in all systematic reporting within the University of London;
- Periodic programme reviews are carried out every 4-6 years to review how a programme has developed over time and to make sure that it remains current and up-to-date.

### **Student feedback mechanisms**

The Student Experience Survey, carried out every two years, collects feedback from the student body on a range of topics relating to the student lifecycle. The results are considered in a number of different ways, including by the Pro-Vice Chancellor, the programme team, principal committees and departments at the University of London responsible for the different aspects of the student experience. Once the findings have been considered in detail, responses are published from both the University of London and from the individual Programme Directors.

Additional survey activity may also be conducted from time to time through the student portal, by email or from the programme team.

VLEs also provide the opportunity for informal feedback and discussion.

An undergraduate and postgraduate student member is appointed by the University to the majority of committees through an annual appointment round. Some programmes also recruit student members at the programme level. Students are frequently invited to take part in quality review processes such as Periodic Programme Reviews, Programme approval, Thematic Reviews, MOOC review panels and ad hoc focus groups. Opportunities such as these are advertised through social media and on the website. More information can be found at <https://london.ac.uk/current-students/getting-involved>.

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## After graduation

### Further study

Successful completion of the programme may allow students to progress to a higher level award in the subject area.

### Graduate employment routes

The programmes will be relevant for those planning careers in epidemiological research; public health and community medicine; epidemiological field studies; disease surveillance units; drug/vaccine manufacturers; or disease control in governmental, NGO's or donor institutions. It is also of interest to those who require an understanding of epidemiology, such as medical journalists and scientific officers in government and industry.

### The Alumni Network

Upon graduation, students automatically become members of the University of London Alumni Network, a diverse community of over 100,000 alumni in more than 180 countries. The Alumni Network aims to provide past students with lifelong links to the University of London and each other. Benefits include social and networking events, access to local groups, a bi-annual magazine, social networking groups, and the opportunity to become an Alumni Ambassador for the University of London.

The London School of Hygiene & Tropical Medicine also welcomes former students to its alumni association and this is free to join.

For further information, please see <https://london.ac.uk/alumni>, [www.facebook.com/londonualumni](https://www.facebook.com/londonualumni), [www.instagram.com/\\_londonu](https://www.instagram.com/_londonu), <https://www.linkedin.com/school/university-of-london> and also <http://www.lshtm.ac.uk/alumni/>