PROGRAMME SPECIFICATION

1. Overview

Academic Year (student cohorts covered by specification	2022-23
Programme Title	Medical Entomology for Disease Control
Programme Director	Matthew Rogers
Awarding Body	University of London
Teaching Institution	London School of Hygiene & Tropical Medicine
Faculty	Infectious and Tropical Diseases
Length of Programme (months)	MSc – Full time = 12 months, Part time = 24 months
Entry Routes	MSc
Exit Routes	MSc/PGDip/PGCert
Award Titles	MSc Medical Entomology for Disease Control (180 credits) Exit awards: PGDip Medical Entomology for Disease Control (120 credits) PGCert Parasitology & Entomology (60 credits)
Accreditation by Professional Statutory and Regulatory Body	N/A
Relevant PGT QAA Benchmark Statement and/or other external/internal reference points	No relevant PGT QAA benchmark for this MSc Programme.

Level of programme within the Framework for Higher Education Qualifications (FHEQ)	Masters (MSc) Level 7
Total Credits	**CATS:** 180 **ECTS:** 90
HECoS Code(s)	100345:100265:101317 (2:2:1)
Mode of Delivery	We are planning for intensive MSc programmes in 2022/23 to be delivered through predominantly in-person teaching on campus combined with elements of online delivery. MSc students will be expected to be in London for the duration of their programme, attending classes in person throughout the year.
Mode and Period of Study	Full time (12 months) or part time/split time (max 24 months)
Cohort Entry Points	Annually in September
Language of Study	English
Re-sit Policy	https://www.lshtm.ac.uk/sites/default/files/academic-manual-chapter-08a.pdf
Extenuating Circumstances Policy	https://www.lshtm.ac.uk/sites/default/files/academic-manual-chapter-07.pdf
Programme Description	This programme combines theoretical and practical training in biology and control of disease vectors and the human pathogens they transmit. Students will gain specialised skills in the molecular biology of infectious diseases, and will cover all aspects of major vector-borne diseases. The programme also offers a thorough grounding in the systematics of medically important arthropods, processes regulating vector populations, and the biology of vector–parasite and vector–vertebrate interactions.
Date of Introduction of Programme (month/year)	The last periodic review of the programme occurred in 2014-15.

Date of production / revision of this programme specification (month/year)	October 2021

2. Programme Aims & Learning Outcomes

Educational aims of the programme
The aim of the programme – consistent with the LSHTM's mission to improve health worldwide – is to provide training in the theoretical and practical aspects of the biology and control of disease vectors as well as the human pathogens that they transmit, and equip students with specialised skills to facilitate careers in operational control and 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. (i) demonstrate advanced knowledge and understanding of the biology of vectors and intermediate hosts of human pathogens together with methods for their control; (ii) describe the biology, life cycles, pathogenesis and diagnosis of parasitic infections in humans and relate these to human health and disease control strategies; (iii) demonstrate a range of specialised technical and analytical skills relevant to vectors and vector borne diseases, e.g. sampling, identification dissection, diagnostics, experimental design, data analysis, control technologies and strategies; (iv) design and carry out a small research project on the biology or control of disease vectors, analyse and interpret the results and prepare a written report including a critical literature review; (v) design, carry out and evaluate vector control interventions using the specialised knowledge and skills mentioned above; and (vi) show competence, both written and verbal, in communicating scientific information and findings.
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. In addition, there is a compulsory one week field course 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, groupwork, presentations or other methods), a practical and MCQ examinations in Term 1, written assessments during the week before the start

of Term 2, 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	2	2	1	90
Recommended Modules		3		45
Project			1	45

Module information is correct at the time of publication, but minor amendments may be made subject to approval as detailed in Chapter 3 of the LSHTM Academic Manual. Optional (i.e. recommended non-compulsory) modules listed are indicative and may change from year to year.
https://www.lshtm.ac.uk/study/courses/changes-courses

Term	Slot	Module Code	Module Title	Module Type (compulsory or recommended)	Credits (CATS)
1	AB1	3196	Analysis & Design of Research Studies	Compulsory	10
1	AB1	3122	Parasitology & Entomology	Compulsory	50
1	AB1	3333	Molecular Biology	Recommended (Supplementary)	0
2	C1	3195	Malaria: From Science to Policy and Practice	Recommended	15
2	C1	3457	Designing Disease Control Programmes	Recommended	15
2	C2	3143	Advanced Diagnostic Parasitology	Recommended	15
2	C2	2417	Design & Analysis of Epidemiological Studies	Recommended	15
2	C2	2402	Statistical Methods in Epidemiology	Recommended	15
2	D1	3141	Vector Sampling, Identification & Incrimination	Compulsory	15
2	D2	3166	Vector Biology & Vector-	Recommended	15

			Parasite Interactions		
2	D2	2437	Epidemiology of Infectious Diseases	Recommended	15
2	D2	3133	Field Trip	Compulsory	0
3	E	3176	Integrated Vector Management	Compulsory	15

Contact time

Student contact time refers to the tutor-mediated time allocated to teaching, provision of guidance and feedback to students. This time includes activities that take place in face-to-face contexts such as on-campus lectures, seminars, demonstrations, tutorials, supervised laboratory workshops, practical classes, project supervision and external fieldwork or visits, as well as where tutors are available for one-to-one discussions and interaction by email. Student contact time also includes tutor-mediated activities that take place in online environments, which may be synchronous (using real-time digital tools such as Zoom or Blackboard Collaborate Ultra) or asynchronous (using digital tools such as tutor-moderated discussion forums or blogs often delivered through the School's virtual learning environment, Moodle). Module contact time will be defined in the individual module specifications and provided to students at the start of their programme.

This definition is based on the one provided by the Quality Assurance Agency for Higher Education (QAA) Explaining contact hours (2011) guidance document, page 4 available here. Student contact time, together with time allocated for independent study and assessment, determines the total student study hours for a module or programme. Although there are separate hours allocated for each of these activities, they should always be clearly linked together to support effective learning.

The London School of Hygiene and Tropical Medicine (LSHTM) defines high quality contact time as structured, focused, purposeful and interactive.

4: Entry Requirements

Criteria for admission
Applicants must normally satisfy the 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 LSHTM to be equivalent to a Second Class Honours degree or above. **OR** c) have relevant professional experience or training which is judged by the LSHTM to be equivalent to a Second Class Honours degree or above. **AND** satisfy any additional requirements where prescribed for admission to a specific programme. An additional preferred requirement for the MSc Medical Entomology for Disease Control is an interest in medical entomology, public health and disease control.
For further information, please see https://www.lshtm.ac.uk/study/how-apply/applying-masters-degree-london/you-apply-msc
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 LSHTM.

As part of the application process, applicants are required to demonstrate how they meet the LSHTM's minimum English language requirements. This is particularly important for applicants requiring a 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 Student visa to be issued for entry to the UK.

Additionally, the LSHTM 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 Student visa.

The academic English language requirements for each of the LSHTM'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/sites/default/files/english_language_requirements_policy.pdf