# PROGRAMME SPECIFICATION

## 1. Overview

<table>
<thead>
<tr>
<th><strong>Academic Year</strong>&lt;br&gt;(student cohorts covered by specification)</th>
<th>2020-21</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Programme Title</strong></td>
<td>Medical Entomology for Disease Control</td>
</tr>
<tr>
<td><strong>Programme Director</strong></td>
<td>Matthew Rogers</td>
</tr>
<tr>
<td><strong>Awarding Body</strong></td>
<td>University of London</td>
</tr>
<tr>
<td><strong>Teaching Institution</strong></td>
<td>London School of Hygiene &amp; Tropical Medicine</td>
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<tr>
<td><strong>Faculty</strong></td>
<td>Infectious and Tropical Diseases</td>
</tr>
<tr>
<td><strong>Length of Programme</strong>&lt;br&gt;(months)</td>
<td>MSc – Full time = 12 months, Part time = 24 months</td>
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<tr>
<td><strong>Entry Routes</strong></td>
<td>MSc</td>
</tr>
<tr>
<td><strong>Exit Routes</strong></td>
<td>MSc/PGDip/PGCert</td>
</tr>
<tr>
<td><strong>Award Titles</strong></td>
<td>MSc Medical Entomology for Disease Control (180 credits)</td>
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<td></td>
<td>Exit awards:</td>
</tr>
<tr>
<td></td>
<td>PGDip Medical Entomology for Disease Control (120 credits)</td>
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<tr>
<td></td>
<td>PGCert Parasitology &amp; Entomology (60 credits)</td>
</tr>
<tr>
<td><strong>Accreditation by Professional Statutory and Regulatory Body</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Relevant PGT QAA Benchmark Statement and/or other external/internal reference points</strong></td>
<td>No relevant PGT QAA benchmark for this MSc Programme.</td>
</tr>
<tr>
<td><strong>Level of programme within the</strong></td>
<td>Masters (MSc) Level 7</td>
</tr>
<tr>
<td>Framework for Higher Education Qualifications (FHEQ)</td>
<td></td>
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<tr>
<td><strong>Total Credits</strong></td>
<td>CATS: 180</td>
</tr>
<tr>
<td><strong>HECoS Code(s)</strong></td>
<td>100345:100265:101317 (2:2:1)</td>
</tr>
<tr>
<td><strong>Mode of Delivery</strong></td>
<td>The programme is taught ‘face-to-face’ at the LSHTM in London.</td>
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<tr>
<td><strong>Mode and Period of Study</strong></td>
<td>Full time (12 months) or part time/split time (max 24 months)</td>
</tr>
<tr>
<td><strong>Cohort Entry Points</strong></td>
<td>Annually in September</td>
</tr>
<tr>
<td><strong>Language of Study</strong></td>
<td>English</td>
</tr>
<tr>
<td><strong>Programme Description</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Date of Introduction of Programme (month/year)</strong></td>
<td>The last periodic review of the programme occurred in 2014-15.</td>
</tr>
<tr>
<td><strong>Date of production / revision of this programme specification (month/year)</strong></td>
<td>October 2019</td>
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2. Programme Aims & Learning Outcomes

<table>
<thead>
<tr>
<th>Educational aims of the programme</th>
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<tr>
<td>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.</td>
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<tr>
<th>Programme Learning Outcomes</th>
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<tr>
<td>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.</td>
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</table>

(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.

<table>
<thead>
<tr>
<th>Teaching and Learning Strategy</th>
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<tr>
<td>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.</td>
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</table>
### 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:

<table>
<thead>
<tr>
<th>Term</th>
<th>Slot</th>
<th>Module Code</th>
<th>Module Title</th>
<th>Module Type (compulsory or recommended)</th>
<th>Credits (CATS)</th>
<th>Contact hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AB1</td>
<td>3196</td>
<td>Analysis &amp; Design of Research Studies</td>
<td>Compulsory</td>
<td>10</td>
<td>30</td>
</tr>
<tr>
<td>1</td>
<td>AB1</td>
<td>3122</td>
<td>Parasitology &amp; Entomology</td>
<td>Compulsory</td>
<td>50</td>
<td>122</td>
</tr>
<tr>
<td>1</td>
<td>AB1</td>
<td>3333</td>
<td>Molecular Biology</td>
<td>Recommended (Supplementary)</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>2</td>
<td>C1</td>
<td>3195</td>
<td>Malaria: from science to policy and practice</td>
<td>Recommended</td>
<td>15</td>
<td>46</td>
</tr>
<tr>
<td>2</td>
<td>C2</td>
<td>3143</td>
<td>Advanced Diagnostic Parasitology</td>
<td>Recommended</td>
<td>15</td>
<td>48</td>
</tr>
<tr>
<td>2</td>
<td>D1</td>
<td>3141</td>
<td>Vector Sampling, Identification &amp; Incrimination</td>
<td>Compulsory</td>
<td>15</td>
<td>66</td>
</tr>
<tr>
<td>2</td>
<td>D2</td>
<td>3166</td>
<td>Vector Biology &amp; Vector-Parasite Interactions</td>
<td>Recommended</td>
<td>15</td>
<td>40</td>
</tr>
<tr>
<td>3</td>
<td>E</td>
<td>3176</td>
<td>Integrated Vector Management</td>
<td>Compulsory</td>
<td>15</td>
<td>56</td>
</tr>
</tbody>
</table>

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
4: Entry Requirements

<table>
<thead>
<tr>
<th>Criteria for admission</th>
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<tbody>
<tr>
<td>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 &amp; Tropical Medicine, an applicant must:</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<td>OR</td>
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<tr>
<td>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.</td>
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<tr>
<td>OR</td>
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<tr>
<td>c) have relevant professional experience or training which is judged by the LSHTM to be equivalent to a Second Class Honours degree or above.</td>
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<tr>
<td>AND</td>
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<td>satisfy any additional requirements where prescribed for admission to a specific programme.</td>
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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](https://www.lshtm.ac.uk/study/how-apply/applying-masters-degree-london/you-apply-msc)

<table>
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<tr>
<th>English language entry requirements</th>
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<tbody>
<tr>
<td>Band B</td>
</tr>
<tr>
<td>It is essential that all students have a good command of the English language to benefit from their studies at the LSHTM.</td>
</tr>
</tbody>
</table>
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 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 CEFR B2 level), in order for a Tier 4 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 Tier 4 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