



## PROGRAMME SPECIFICATION

### 1. Overview

<b>Academic Year (student cohorts covered by specification)</b>	2020-21
<b>Programme Title</b>	Immunology of Infectious Diseases
<b>Programme Director</b>	Gregory Bancroft
<b>Awarding Body</b>	University of London
<b>Teaching Institution</b>	London School of Hygiene & Tropical Medicine
<b>Faculty</b>	Infectious and Tropical Diseases
<b>Length of Programme (months)</b>	MSc - Full time = 12 months, Split study = 24 months
<b>Entry Routes</b>	MSc
<b>Exit Routes</b>	MSc/PGDip/PGCert
<b>Award Titles</b>	MSc in Immunology of Infectious Diseases (180 credits) Exit awards: PGDip in Immunology of Infectious Diseases (120 credits) PGCert in Immunology of Infectious Diseases (60 credits)
<b>Accreditation by Professional Statutory and Regulatory Body</b>	N/A
<b>Relevant PGT <a href="#">QAA Benchmark Statement</a> and/or other external/internal reference points</b>	No relevant PGT QAA benchmark for this MSc Programme.

<b>Level of programme within the Framework for Higher Education Qualifications (FHEQ)</b>	Masters (MSc) Level 7			
<b>Total Credits</b>	CATS:	180	ECTS:	90
<b>HECoS Code(s)</b>	100345:100265:100948 (1:1:1)			
<b>Mode of Delivery</b>	<p>For 2020-21, the delivery of LSHTM teaching has been adjusted in response to the COVID-19 pandemic.</p> <p>For MSc Immunology of Infectious Diseases: Term 1 core module teaching will be delivered online only, with a combination of synchronous (live and interactive) and asynchronous (recordings, independent study, individual exercises, etc) activities.</p> <p>Terms 2 modules will be offered both online and also on-campus where possible. Some on-campus modules will use a blended approach of both face to face and online delivery if permitted under UK social distancing rules at that time. Term 3 will include on-campus pre-project lab training and access for students undertaking lab-based projects.</p> <p>If at any point during the academic year the UK is forced to go into another period of lockdown, this programme will be delivered using online methods only.</p> <p>Throughout the year there will be programme- and LSHTM-level activities, such as group seminars and a themed lecture series and discussion forums. These will allow students to study the programme safely at a distance but remain together as a community.</p>			
<b>Mode and Period of Study</b>	Full time (12 months) or part time/split time (max 24 months)			

<b>Cohort Entry Points</b>	Annually in September
<b>Language of Study</b>	English
<b>Re-sit Policy</b>	<a href="https://www.lshtm.ac.uk/sites/default/files/academic-manual-chapter-08a.pdf">https://www.lshtm.ac.uk/sites/default/files/academic-manual-chapter-08a.pdf</a>
<b>Extenuating Circumstances Policy</b>	<a href="https://www.lshtm.ac.uk/sites/default/files/academic-manual-chapter-07.pdf">https://www.lshtm.ac.uk/sites/default/files/academic-manual-chapter-07.pdf</a>
<b>Programme Description</b>	<p>This programme combines theoretical knowledge and practical training in the immunology of infectious diseases through comprehensive teaching and research methods. Students will gain specialised skills in applying scientific concepts, evaluating scientific data and carrying out modern immunological techniques. Students will benefit from the unique mix of immunology, vaccinology, molecular biology, virology, bacteriology, parasitology, mycology and clinical medicine at the LSHTM.</p> <p>Infectious diseases represent an increasingly important cause of human morbidity and mortality throughout the world. Vaccine development is thus of great importance in terms of global health. In parallel with this growth, there has been a dramatic increase in studies to identify the innate, humoral or cellular immunological mechanisms which confer immunity to pathogenic viruses, bacteria, fungi and parasites. As a result, increasing numbers of scientists, clinicians and veterinarians wish to develop their knowledge and skills in these areas.</p> <p>The flexible nature of the programme allows students to focus on attaining a broader understanding of infectious disease through attending taught units. Students can also undertake an extended research project within groups led by experienced team leaders. Such projects can involve basic investigations of immune mechanisms or applied field based studies.</p>
<b>Date of Introduction of Programme (month/year)</b>	The last periodic review of the programme occurred in 2015-16.

<b>Date of production / revision of this programme specification (month/year)</b>	Extraordinary revisions made in August 2020 in response to Covid-19 mitigation planning
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## 2. Programme Aims & Learning Outcomes

<b>Educational aims of the programme</b>
The aim of the programme – consistent with the LSHTM’s mission to improve health worldwide – is to provide advanced theoretical knowledge and practical training in the immunology of infectious diseases through a comprehensive range of teaching and research methods. It equips students with the range of specialised knowledge and skills in applying scientific concepts, evaluating scientific data and carrying out modern immunological techniques.
<b>Programme Learning Outcomes</b>
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"> <li>(i) demonstrate specialist knowledge and understanding of the basic principles of host immunity to infection against the diverse range of pathogens which confront human populations;</li> <li>(ii) apply this specialist knowledge to a range of practical skills and techniques, in particular modern molecular and cellular techniques for assessing immune responses to pathogens;</li> <li>(iii) critically assess, select and apply appropriate research methods to investigate basic immunological mechanisms and applied issues in the immunology of infection;</li> <li>(iv) critically evaluate primary scientific data and the published scientific literature;</li> <li>(v) integrate and present key immunological concepts at an advanced level, both verbally and in written form.</li> </ul>
<b>Teaching and Learning Strategy</b>
The programme is taught online and on-campus using a variety of synchronous (live and interactive) and asynchronous (recordings, independent study, individual exercises, etc) 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 one online assessment mid Term 1, written assessments during the week before the start of Term 2 delivered online, additional individual module assessments (which may include essays, other written coursework, short written exams, group work, presentations or other methods) delivered either face to face or online in Terms 2 and 3, and a project report in Term 3. 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:

#### **\*\*Without Extended Project\*\***

Full-time Masters	Term 1	Term 2/3	Term 3	Total Credits
Compulsory Modules	2	2		90
Recommended Modules		3		45
Project			1	45

#### **\*\*With Extended Project\*\***

Full-time Masters	Term 1	Term 2/3	Term 3	Total Credits
Compulsory Modules	2	2		90
Recommended Modules		1		15
Extended Project			1	75

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)	Contact hours*
1	AB1	3196	Analysis & Design of Research Studies	Compulsory	10	30
1	AB1	3120	Immunology of Infectious Diseases	Compulsory	50	201
1	AB1	3333	Molecular Biology	Recommended (Supplementary)	0	20
2	C1	3134	Advanced Immunology 1 (linked)	Compulsory	15	50
2	C2	3144	Advanced Immunology 2 (linked)	Compulsory	15	
2	D1	3158	Advanced Training in	Recommended	15	40

			Molecular Biology			
2	D1	3167	Immunology of Clinical Diseases	Recommended	15	28
2	D2	3177	Immunology of Parasitic Infection	Recommended	15	32
2	D2	3160	Molecular Research in Infectious Diseases	Recommended	15	54
2 and 3	D1, D2 and E	3000	Extended Project	Recommended	75	80
3	E	3169	Antimicrobial Chemotherapy	Recommended	15	48
3	E	3260	Cell Biology of Host-Pathogen Interactions	Recommended	10	40
3	E	3174	HIV	Recommended	15	60
3	E	3130	Mycology	Recommended	15	62
3	E	3465	Neglected Tropical Diseases	Recommended	15	60
3	E	3191	Vaccine Immunology	Recommended	15	55

\* 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). These contact hours reflect

provision during the 2019/2020 session. We anticipate that in 2020/2021 there will be fewer hours with tutor presence at specified times and a greater emphasis on directed study such as recorded lectures, recommended readings and guided exercises. Please refer to the individual 2020/2021 module specifications for more detail. 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.

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 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 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](https://www.lshtm.ac.uk/sites/default/files/english_language_requirements_policy.pdf)