



## MODULE SPECIFICATION

<b>Academic Year (student cohort covered by specification)</b>	2020-21
<b>Module Code</b>	3157
<b>Module Title</b>	Clinical Bacteriology 1
<b>Module Organiser(s)</b>	Dr Lisa Dawson and Dr Heidi Hopkins
<b>Faculty</b>	Infectious & Tropical Diseases
<b>FHEQ Level</b>	Level 7
<b>Credit Value</b>	<b>CATS:</b> 15 <b>ECTS:</b> 7.5
<b>HECoS Code</b>	100265:100345 (1:1)
<b>Term of Delivery</b>	Term 2
<b>Mode of Delivery</b>	<p>For 2020-21 this module is delivered online but with practical sessions on-campus at LSHTM.</p> <p>Where specific teaching methods (lectures, seminars, discussion groups) are noted in this module specification these will be delivered using an online platform. There will be a combination of live and interactive activities (synchronous learning) as well as recorded or self-directed study (asynchronous learning).</p> <p>The practical lab-based element of this module will be scheduled in over the 5-week period to give students adequate time in the laboratories and ensure any continuing social distancing guidelines are being met.</p> <p>Given the need for practical on campus sessions, should the pandemic escalate in the UK and further lockdown measures be required, this module will not be available. In this case, students on lab-based programmes will have the opportunity to suspend their studies. Students should stay in contact with their Programme Director and Programme Administrative team.</p>
<b>Mode of Study</b>	Full-time
<b>Language of Study</b>	English
<b>Pre-Requisites</b>	This module is a natural progression for students who have taken the Bacteriology & Virology (3121) module during the autumn term. Students who have not taken this module should be aware of the large practical component of this module that

	builds on areas covered during the Bacteriology & Virology (3121) module.
<b>Accreditation by Professional Statutory and Regulatory Body</b>	None
<b>Module Cap (Maximum number of students)</b>	20 to 24 (numbers may be capped due to limitations in facilities or staffing)
<b>Target Audience</b>	This module is intended for students who wish to understand the principles of clinical bacteriology and to be introduced to diagnostic laboratory practice and management.
<b>Module Description</b>	This module provides a systematic understanding of identification and diagnostics of bacterial infection in hospital settings. The module provides a comprehensive understanding of the techniques used to identify and classify bacteria, which are covered in both lectures and practical classes. Key examples of bacterial infections from a variety of specimens will be analysed to determine the causative agent of infection and the antimicrobial resistance profile, which informs treatment. Including analysis of urine, CSF, obstetric and STI specimens & infections. The module will provide a practical understanding of how established diagnostic techniques are employed and interpreted to identify human infections.
<b>Duration</b>	5 weeks at 2.5 days per week
<b>Timetabling slot</b>	Slot C2
<b>Last Revised (e.g. year changes approved)</b>	October 2020

<b>Programme(s)</b>	<b>Status</b>
This module is linked to the following programme(s)	
MSc Medical Microbiology	Recommended Option
MSc Control of Infectious Diseases	Recommended Option



## Module Aim and Intended Learning Outcomes

### Overall aim of the module

The overall module aim is to:

- provide a review of the aetiology, pathogenesis, epidemiology, diagnosis, control and therapy of human bacterial infections of clinical importance.

### Module Intended Learning Outcomes

Upon successful completion of the module a student will be able to:

1. Demonstrate knowledge and understanding of essential theory and practice of bacteriology of infectious diseases;
2. Demonstrate knowledge and understanding of bacteriological investigations required for the diagnosis and treatment of the infected individual;
3. Perform various clinical laboratory procedures including specimen processing, isolation, identification and susceptibility testing of bacterial pathogens.

## Indicative Syllabus

### Session Content

The module is expected to cover the following topics:

- Infectious bacterial diseases;
- Laboratory investigations necessary for the diagnosis and treatment of the infected individual;
- Processing of clinical specimens, including isolation, identification and susceptibility testing of bacterial pathogens.

## Teaching and Learning

### Notional Learning Hours

Type of Learning Time	Number of Hours	Expressed as Percentage (%)
Contact time	52	35
Directed self-study	0	0
Self-directed learning	48	32
Assessment, review and revision	50	33
<b>Total</b>	<b>150</b>	<b>100</b>

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 lectures, seminars, demonstrations, tutorials, supervised laboratory workshops, practical classes, project supervision 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).

The division of notional learning hours listed above is indicative and is designed to inform students as to the relative split between interactive (online or on-campus) and self-directed study.

### Teaching and Learning Strategy

The module consists of online lectures and where possible on-campus practical sessions. The practical focus is of particular importance.

## Assessment

### Assessment Strategy

The assessment for this module has been designed to measure student learning against the module intended learning outcomes (ILOs) as listed above. Formative assessment methods may be used to measure students' progress. The grade for summative assessment(s) only will go towards the overall award GPA.

Where possible, the assessment for this module will be on-campus at LSHTM.

Students will sit a two hour written examination covering all aspects of the module. The written examination will consist of short notes questions (50% of marks) and there will also be practical spot tests (50% of marks) to determine students' ability to apply acquired knowledge in the identification of bacterial pathogens.

### Summative Assessment

Assessment Type	Assessment Length (i.e. Word Count, Length of presentation in minutes)	Weighting (%)	Intended Module Learning Outcomes Tested
Timed Test (in-module test)	2 hours	100	1, 2, 3



### Resitting assessment

Resits will accord with the LSHTM's [Resits Policy](#)

For individual students resitting there will be an approved alternative assessment as detailed below.

Assessment being replaced	Approved Alternative Assessment Type	Approved Alternative Assessment Length (i.e. Word Count, Length of presentation in minutes)
Timed Test	Coursework	The task will be a coursework assessment consisting of 4 short essay questions. Short essay titles will be provided in early September

### Resources

#### Other resources

<https://www.gov.uk/government/collections/standards-for-microbiology-investigations-smi>

### Teaching for Disabilities and Learning Differences

The module-specific site on Moodle gives students access to lecture notes and copies of the slides used during the lecture. Where appropriate, lectures are recorded and made available on Moodle. All materials posted on Moodle, including computer-based sessions, have been made accessible where possible.

LSHTM Moodle is accessible to the widest possible audience, regardless of specific needs or disabilities. More detail can be found in the [Moodle Accessibility Statement](#) which can also be found within the footer of the Moodle pages. All students have access to "SensusAccess" software which allows conversion of files into alternative formats.

Student Support Services can arrange learning or assessment adjustments for students where needed. Details and how to request support can be found on the [LSHTM Disability Support pages](#).