



MODULE SPECIFICATION

Academic Year (student cohort covered by specification)	2023-24			
Module Code	3157			
Module Title	Clinical Bacteriology 1			
Module Organiser(s)	Dr Vanessa Terra & Victoria Miari			
Faculty	Infectious & Tropical Diseases			
FHEQ Level	Level 7			
Credit Value	CATS	15	ECTS	7.5
HECoS Code	100265:100345 (1:1)			
Term of Delivery	Term 2			
Mode of Delivery	<p>For 2023-24 this module will be delivered by predominantly face-to-face teaching modes.</p> <p>Where specific teaching methods (lectures, seminars, discussion groups) are noted in this module specification these will be delivered by predominantly face-to-face sessions. There will be a combination of live and interactive activities (synchronous learning) as well as recorded or self-directed study (asynchronous learning), plus face-to-face laboratory classes.</p>			
Mode of Study	Full-time			
Language of Study	English			
Pre-Requisites	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.			
Accreditation by Professional Statutory and Regulatory Body	None			
Module Cap (Indicative number of students)	20 to 24 (numbers may be capped due to limitations in facilities or staffing)			
Target Audience	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.			



Module Description	<p>This module provides a systematic understanding of identification and diagnostics of bacterial infection in healthcare 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. Based on laboratory results, potential treatment options will be discussed. Clinical syndromes covered will include urinary tract infections, CSF infections and meningitis, obstetric and STI infections.</p> <p>The module will provide an understanding of how established diagnostic techniques are employed and interpreted to identify human infections.</p>
Duration	5 weeks at 2.5 days per week
Timetabling slot	Slot C2
Last Revised (e.g. year changes approved)	June 2022

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

Module Aim and Intended Learning Outcomes

Overall aim of the module
<p>The overall module aim is to:</p> <ul style="list-style-type: none"> provide a review of the aetiology, pathogenesis, epidemiology, diagnosis, control and therapy of human bacterial infections of clinical importance.

Module Intended Learning Outcomes
<p>Upon successful completion of the module a student will be able to:</p> <ol style="list-style-type: none"> Demonstrate theoretical and practical knowledge of bacterial infectious diseases;

Module Intended Learning Outcomes

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
Total	150	100

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.

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

Teaching and Learning Strategy

The module consists of a blend of online or face-to-face lectures and 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.

The practical assessment for this module will be on-campus at LSHTM.

Students will sit a two hour written examination, with an additional 15 minutes to read the questions and plan answers. This will be situated in the laboratory.

The assessment will cover all aspects of the module and will consist of:

1. Short notes questions, which will be a combination of materials from both practical laboratory sessions and lectures, and
2. Practical spot tests 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 15 minutes	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.



Resitting assessment		
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

Indicative reading list *(if applicable)*

Guidance note: Please list up to 12 core texts and sources for the module.

Other resources

Guidance note: Please list the other study resources for the module.

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



Teaching for Disabilities and Learning Differences

The module-specific site on Moodle provides students with access to lecture notes and copies of the slides used during the lecture prior to the lecture (in pdf format). All lectures are recorded and made available on Moodle as quickly as possible. All materials posted up on Moodle areas, including computer-based sessions, have been made accessible where possible.

The LSHTM Moodle has been made accessible to the widest possible audience, using a VLE that allows for up to 300% zoom, permits navigation via keyboard and use of speech recognition software, and that allows listening through a screen reader. All students have access to “SensusAccess” software which allows conversion of files into alternative formats.

For students who require learning or assessment adjustments and support this can be arranged through the Student Support Services – details and how to request support can be found on the LSHTM Disability Support pages.