MODULE SPECIFICATION

Academic Year (student cohort covered by specification)	2023-24
Module Code	3165
Module Title	Clinical Bacteriology 2
Module Organiser(s)	Dr Catherine Hall; Deputy V 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	For 2023-24 this module will be delivered by predominantly face-to-face teaching modes. 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.
Mode of Study	Full-time
Language of Study	English
Pre-Requisites	This module is intended for students who have completed Clinical Bacteriology 1 (3157) or have previous practical experience of bacteriology laboratory methods, and who wish to advance their knowledge of topics not covered in module 3157 and to acquire further laboratory competence.
Accreditation by Professional Statutory and Regulatory Body	Not currently accredited by any other body
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 have completed the module Clinical Bacteriology 1 (3157) or have previous practical experience of bacteriology laboratory methods, and who wish to advance their knowledge of topics not covered in module 3157 and to acquire further laboratory competence. It is complementary to module 3157.
Module Description	This module provides systematic instruction on identification and diagnosis of bacterial infections in hospital settings, complementary to and building on material presented in Clinical Bacteriology 1 (module 3157). In lectures and practical classes, the module provides comprehensive explanation of and hands-on experience with the techniques used to identify and classify bacteria. Key examples of bacterial infections from a variety of specimens (including bloodstream, ear/nose/throat, gastrointestinal, respiratory, wound) will be analysed to determine the causative agent of infection and the antimicrobial resistance profile, which informs treatment. Lecture and laboratory sessions also cover principles of disinfection and infection control. The module will provide a practical understanding of how established diagnostic techniques are employed and interpreted to identify human infections.
Duration	5 weeks at 2.5 days per week
Timetabling slot	Slot D2
Last Revised (e.g. year changes approved)	August 2022

Programme(s) This module is linked to the following programme(s)	**Status**
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 instruction in the aetiology, pathogenesis, epidemiology, diagnosis, control and therapy of human bacterial infections of clinical importance that were not covered in the module Clinical Bacteriology 1 (3157).

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 in relation to 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	34.7
Directed self-study	0	0
Self-directed learning	48	32
Assessment, review and revision	50	33.3
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 assessment for this module will be on-campus at LSHTM. Students will sit a two hour 15 minute written examination situated in the laboratory setting, covering all aspects of the module. The written examination will consist of short notes questions (50% of marks), which will be a combination of materials from both practical laboratory sessions and lectures, alongside 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 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.

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 four short essay questions.

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.