

# Module Specification

LONDON  
SCHOOL of  
HYGIENE  
& TROPICAL  
MEDICINE



## ABOUT THIS DOCUMENT

This module specification applies for the academic year 2018-19

Last revised 20 August 2018 by David Allen

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## GENERAL INFORMATION

Module name	<b>Clinical Virology</b>
Module code	3187
Module Organiser	Dr David Allen
Contact email	<a href="mailto:david.allen@lshtm.ac.uk">david.allen@lshtm.ac.uk</a>
Home Faculty	Infectious & Tropical Diseases
Level	Level 7 (postgraduate Masters 'M' level) of the QAA <a href="#">Framework for Higher Education Qualifications</a> in England, Wales & Northern Ireland (FHEQ).
Credit	15 credits
Accreditation	Not currently accredited by any other body.
Keywords	Virus; viral infections; virus diagnostics; human virology, laboratory science

## AIMS, OBJECTIVES AND AUDIENCE

Overall aim	To provide a review of the aetiology, pathogenesis, epidemiology, diagnosis, control and therapy of human viral infections of clinical importance.
Intended learning Outcomes	By the end of this module, students should be able to: <ul style="list-style-type: none"><li>• Demonstrate knowledge and understanding of pathogenetic, diagnostic and therapeutic aspects of clinical virology</li><li>• Demonstrate understanding of the role of viral infection within the hospital environment and evaluate different methods of infection control</li><li>• Perform various clinical laboratory procedures including specimen processing, isolation, identification of viral pathogens</li><li>• Demonstrate understanding of quality control as well as appropriate workflows for laboratory testing</li><li>• Evaluate recent molecular and immunological research developments that have important implications on the pathobiology, clinical management and laboratory diagnosis of virus infections</li></ul>
Target audience	This module is intended for students who wish to understand the principles of clinical virology and to be introduced to diagnostic laboratory practice and management. This module is a natural progression for students who have

	taken the Core Virology module during Term 1 and will complement the Clinical Bacteriology modules in Term 2 – C2 & D2.
<b>CONTENT</b>	
<b>Session content</b>	<p>The module is expected to address most of the following topics (though please note that these may be subject to change)::</p> <ul style="list-style-type: none"> <li>• <b>Lecture topics:</b> respiratory infections, gastrointestinal infections, congenital infections, antiviral agents and therapy, childhood infections, HIV diagnosis &amp; management, emerging viral infections, the discovery &amp; pre-clinical development of Relenza, and diagnostic laboratory Quality Assurance and Health &amp; Safety issues</li> <li>• <b>Practical sessions:</b> enzyme immunoassay (EIA), serology- and microscopy-based applications for diagnosis, PCR-based applications for diagnosis, an infection control exercise and applications of immunofluorescence for diagnostics.</li> </ul>
<b>TEACHING, LEARNING AND ASSESSMENT</b>	
<b>Study resources provided or required</b>	Module Information can be found on the Virtual Learning Environment (Moodle) containing information about each session and key references for the module. All materials and equipment for the practical sessions will be provided. Detailed handouts for both lectures and practical sessions will be provided via Moodle.
<b>Teaching and learning methods</b>	The module consists of lectures and practical sessions, and clinical case review-based sessions.
<b>Assessment details</b>	<p>Students will sit a two hour written examination covering all aspects of the module. The written examination will consist of short notes questions.</p> <p>Resit/deferred/new attempts - The task will be a coursework assessment consisting of 4 short essay questions. Short essay titles will be provided in early September</p>
<b>Assessment dates</b>	<p>Assessments will take place during <b>Week 5 of the C1 slot.</b></p> <p>Resit/deferred/new attempts - The next assessment deadline will be during mid/late September of the current academic year.</p>
<b>Language of study and assessment</b>	English (please see 'English language requirements' below regarding the standard required for entry).
<b>TIMING AND MODE OF STUDY</b>	
<b>Duration</b>	5 weeks at 2.5 days per week
<b>Dates</b>	Monday morning to Wednesday lunchtime
<b>Timetable slot</b>	Term 2 - slot <b>C1</b>
<b>Mode of Study</b>	The module is taught face-to-face in London. Both full-time and part-time students follow the same schedule.
<b>Learning time</b>	<p>The notional learning time for the module totals 150 hours, consisting of:</p> <ul style="list-style-type: none"> <li>• Contact time ≈ 48 hours</li> <li>• Directed self-study ≈ 26 hours</li> <li>• Self-directed learning ≈ 26 hours</li> </ul>

- Assessment, review and revision ≈ 50 hours

## APPLICATION AND ADMISSION

<b>Pre-requisites</b>	This module is a natural progression for students who have taken the Core Virology 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 Core Virology module.
<b>English language requirements</b>	A strong command of the English language is necessary to benefit from studying the module. Applicants whose first language is not English or whose prior university studies have not been conducted wholly in English must fulfil LSHTM's <a href="#">English language requirements</a> .
<b>Student numbers</b>	20-24 (numbers may be capped due to limitations in facilities or staffing)
<b>Student selection</b>	Preference will be given to LSHTM MSc Medical Microbiology students who studied the Core Virology module in Term 1. Other applicants meeting the entry criteria will usually be offered a place in the order applications are received, until any cap on numbers is reached. Applicants may be placed on a waiting list and given priority the next time the module is run.