

Module Specification (Distance Learning)

In collaboration with University of London International Programmes



1. Title:	Nutrition and Infection
2. Module code:	IDM202
3. Institution:	Faculty of Infectious and Tropical Diseases London School of Hygiene & Tropical Medicine Keppel Street London WC1E 7HT http://www.lshtm.ac.uk/itd/
4. Module Organiser:	Dr Marjoleine Dijkhuizen
5. Mode of study:	Distance Learning
6. Type:	Elective module
7. Duration and dates:	<p>Deadlines if taken as part of a formal award:</p> <p>Application deadline: 30 June each year Registration deadline: 31 August each year Course registration duration: Up to 5 years Course starts: 1 October each year Examination takes place: Usually June each year (date to be confirmed)</p> <p>Deadlines if taken as an individual module (i.e. not registered for formal award):</p> <p>Application deadline: 31 August each year Registration deadline: 30 November each year Registration duration: 2 years Module study starts: 1 October each year Examination takes place: Usually June each year (date to be confirmed)</p>
8. Credit points:	15 credit points will be awarded on successful completion of this module at Masters level (Level 7).
9. Notional Learning Hours (NLH):	On average the module should take about 150 hours to complete, consisting of the following: Directed self-study: 75 hours Self-directed learning: 25 hours Assessment, review and revision: 50 hours.
10. Aim:	This module aims to provide students with a basic understanding of the interactions between nutrition and infections, and will better place students to deal with the practical and operational management of infectious disease or under-nutrition at either the individual or population level.
11. Learning objectives:	On completing this module students should be able to: <ul style="list-style-type: none"> • contextualise discussions of nutrition and infection within historic and methodological frameworks, • review the basic knowledge and understanding of immunological mechanisms of the human body and the role nutrients play in immune mechanisms, • describe the role infection plays in the aetiology and pathogenesis of under-nutrition, • explain how and why under-nutrition affects the host defence mechanisms and influences resistance to infection, • identify the specific nutrients that influence the risk of infection, and review

	<p>the evidence for this interaction between specific micronutrients and infections,</p> <ul style="list-style-type: none"> describe the consequences of the vicious cycle of the relationship between infection and nutrition. Understand that the field is positioned in between nutrition and immunology, and appreciate that knowledge, insights and concepts are rapidly developing and changing. Critical appraisal of literature and a good understanding of the basic principles of several disciplines need to be combined to understand the current concepts in this field, rather than just acquiring textbook knowledge.
12. Content:	<p>This module contains seven sections, as follows:</p> <p>Section 1 The study of nutrition and infection Section 2 Basics of immunology and nutrition Section 3 Interrelationship between undernutrition and infection Section 4 The role of micronutrients in the risk of infection Section 5 Nutrition and new and resurgent infections Section 6 Especially susceptible groups Section 7 Case studies in nutrition and infection.</p>
13. Learning methods:	<p>Learning is self-directed against a set of learning objectives, using the materials provided.</p> <p>Student support is available from the module tutors via a web-based discussion forum in which students are encouraged to participate. In addition, module tutors provide written feedback on the submitted assessed assignment.</p>
14. Study resources provided:	<p>Study Guide: Paper version.</p> <p>Reader (folder containing associated journal articles).</p> <p>Textbooks: Shetty, P (2010) <i>Nutrition, Immunity and Infection</i>. 1st Edition. CABI Publishing. ISBN: 978-0851995311</p> <p>Registered students have access to the School's online library resources. Students who are taking this as an individual module or as part of MSc PH or MSc EP will also have online access to the MSc ID core study materials (this access will exclude tutor support and associated textbook).</p>
15. Assessment procedures:	<p>Formal assessment of this module includes an assessed assignment (30% of the total grade for the module) and a 2-hour unseen written examination (70% of the total grade for the module). The examination paper may consist of a choice of essay and short answer questions.</p> <p>Examinations are normally held in a student's country of residence, in one of over 650 examination centres worldwide. They are arranged mainly through Ministries of Education or the British Council. A local fee will be payable. A list of examination centres can be found at http://www.londoninternational.ac.uk/current_students/general_resources/exams/exam_centres/index.shtml.</p> <p>If students fail an examination at the first entry they will be allowed one further attempt, the following year.</p>
16. Prerequisites:	<p>Those wishing to study this module must have regular access to the internet to benefit from library facilities, participate in web-based conference discussions and submit assignments.</p> <p>Students must meet the standard of English required to study this course.</p>

	See http://www.lshtm.ac.uk/prospectus/english.html .
17. Attendance:	No maximum number
18. Selection, if applicable:	<p>This module is available only to those registered for the <u>MSc Infectious Diseases</u> (ID), <u>Epidemiology</u> (EP), or <u>Public Health</u> (PH) courses; alternatively, it can be taken as an Individual Module. Those studying for the PG Diploma ID or PH courses under the credit framework scheme may also study this module.</p> <p>Those who wish to study this module as an Individual Module or as part of an EP or PH course should note that the study material may refer to ID core modules (IDM101, IDM102, IDM103 and IDM104) which they may not have studied. In particular, students should have a prior knowledge of basic biochemistry, cell biology, genetics and immunology in order to be able to work through and benefit fully from this module. (See section 14 above.)</p>
19. Fees:	For current schedule of fees see http://www.londoninternational.ac.uk/fees/schedules/lshtm.pdf .
20. Scholarships:	None available
21. External accreditation:	None
22. Application process:	Applications are managed by the University of London International Programmes (website: http://www.londoninternational.ac.uk/).
23. Further enquiries:	Enquiries may be emailed to distance@lshtm.ac.uk .