



COURSE SYLLABUS

Medical Microbiology, 7.5 credits

Medicinsk mikrobiologi, 7,5 högskolepoäng

Course Code:	HMMA17	Education Cycle:	First-cycle level
Confirmed by:	Utbildningsrådet May 28, 2007	Disciplinary domain:	Medicine
Revised by:	Chairperson of the Educational Council May 13, 2013	Subject group:	ME1
Valid From:	Aug 26, 2013	Specialised in:	G1N
Version:	2		

Intended Learning Outcomes (ILO)

Upon completion of the course the student should have the

Knowledge and understanding

In order to

- describe morphology, metabolism, growth factors and genetics of microorganisms
- describe virulence factors of microorganisms and the symptoms and diseases they cause
- describe common microbiological diagnostic methods and the significance of sterile technique within the field of microbiology
- explain the pharmacological action of antibiotics and resistance mechanisms

Skills and abilities

In order to

- carry out general occurring bacteriological tests and interpret results
- execute microbiological sterile technique

Contents

- morphology of microorganisms
- metabolism, growth factors and genetics
- bacteriology
- mycology
- parasitology
- virology
- microbiological diagnostics
- sterile technique
- antibiotics

Type of instruction

The course consists of lectures, one lab exercise, group discussions and one seminar.

The teaching is normally conducted in Swedish, but can occasionally be in English.

Prerequisites

General entry requirements and Chemistry A (Field-specific entry requirements 8) and required grade Passed/E (or the equivalent). Exemption will be given from entrance requirements in Physics B and Mathematics D (or the equivalent).

Examination and grades

The course is graded A, B, C, D, E, FX or F.

Exam form

One individually written exam, lab exercise, group discussions and one seminar.

Examiner

The course exams are conducted by a university lecturer.

Registration of examination:

Name of the Test	Value	Grading
Examination	7.5 credits	A/B/C/D/E/FX/F

Other information

Guidelines about attendance

Compulsory attendance at lab exercise, group discussions and seminar.

Course literature

Murray, P., Kobayashi, G., Pfaller, M., & Tenover, K. (2013). *Medical Microbiology*. London: Mosby Inc.

The latest edition of the course literature will be used.

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Department of Natural Science and Biomedicine