Department of Biology Education

Stockholm University

Syllabus

for course at first level

Microbiology
Mikrobiologi

15.0 Higher Education Credits
15.0 ECTS credits

Course code:	BL4005
Valid from:	Autumn 2007
Date of approval:	2006-06-08
Department	Department of Biology Education
Subject	Biology
Specialisation:	G2F - First cycle, has at least 60 credits in first-cycle course/s as entry requirements

Decision

This syllabus has been approved by the Board of the Faculty of Science at Stockholm University.

Prerequisites and special admittance requirements

Admittance to the course requires knowledge equivalent to 30 credits in Chemistry and Cell and Molecular Biology 30 credits. (Three credits corresponds to approximately two weeks full-time studies).

Course structure

Examination code	Name	Higher Education Credits
4A05	Theory	5
4B05	Laboratory exercises and group discussions	6
4C05	Essay and seminar	4

Course content

a. The course covers the cell structure, physiology, and systematics of bacteria and archaea, medical microbiology with an emphasis on bacterial infections and host defence mechanisms, microbial ecology, and applied microbiology.
b. The course includes the following elements: Theory 5 hp, Laboratory Exercises and Group Discussions 6 hp, Essay and Seminar 4 hp.

Learning outcomes

It is expected that the student after taking the course will be able to:

- describe the diversity of bacterial and archaeal cell structure, physiology and interactions with other organisms
- describe the importance of microorganisms in society and in terrestrial and aquatic environments
- work correctly and safely with bacteria, including pathogens
- search, evaluate, compile, and present scientific information for a specific target audience

Education

The education consists of lectures, laboratory exercises, group discussions, study visits, project work and seminars

Participation in laboratory exercises, group discussions, project work, seminars and group education associated with this is compulsory. An examiner may rule that a student is not obliged to participate in certain compulsory education if there are special grounds for this after consultation with the relevant teacher.

Forms of examination

a. Examination for the course is in the following manner: measurement of knowledge takes place through: Project, seminar and written and/or oral examination

b. Grading is carried out according to a 7-point scale related to learning objectives:
A = Excellent
B = Very Good
C = Good
D = Satisfactory
E = Sufficient
Fx = Fail
F = Fail

c. Grading criteria for the course will be distributed at the start of the course.

d. A minimum grade of E is required to pass the course, together with:
•approved laboratory exercises and group discussions
•participation in all compulsory education

e. Students who fail to achieve a pass grade in an ordinary examination have the right to take at least further four examinations, as long as the course is given. The term “examination” here is used to denote also other compulsory elements of the course. Students who have achieved a pass grade on an examination may not retake this examination in order to attempt to achieve a higher grade. Students who have failed to reach a pass grade on two occasions have the right to request that a different teacher be appointed to set the grade of the course. A request for such appointment must be sent to the departmental board.

Interim

Students may request that the examination is carried out in accordance with this syllabus even after it has ceased to apply. This right is limited, however, to a maximum of three occasions during a two-year-period after the end of giving the course. A request for such examination must be sent to the departmental board.

Limitations

The course can not be included in a degree together with the course Microbiology 10 p (BI3080) or the equivalent.

Misc

The course is a component of the Bachelor's Programmes in Biology and Molecular Biology, and it can also be taken as an individual course.

Required reading

Course literature is decided by the departmental board and is described in an appendix to the syllabus.