Department of Biology Education

Stockholm University

Syllabus

for course at advanced level

Infection Biology
Infektionsbiologi

15.0 Higher Education Credits
15.0 ECTS credits

Course code:	BL8035
Valid from:	Autumn 2011
Date of approval:	2009-08-20
Changed:	2011-10-10
Department	Department of Biology Education
Main field:	Biology
Specialisation:	A1N - Second cycle, has only 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, including a minimum of 7,5 credits in Biochemistry, Cell and Molecular Biology 30 credits and Microbiology 15 hp (BL4005). (Three credits corresponds to approximately two weeks full-time studies). Swedish upper secondary school course English B/English 6 or equivalent.

Course structure

Examination code	Name	Higher Education Credits
8035	Infection Biology	15

Course content

The course covers biological processes in microbial infection. Central concepts are microbe-host interactions, induction of host cell responses, microbial mechanisms of escape from such responses, intracellular survival, antibiotic resistance and alternative ways of treating infections.

Learning outcomes

It is expected that the student after taking the course will be able to:
• describe the biological processes in infections with different microbes
• describe different ways of treating infections and explain complications that may arise
• explain and use advanced methods in infection biology
• search, evaluate, compile and present scientific information within the field for a specified target group

Education

The education consists of lectures, laboratory exercises, submitted work and seminars.
Participation in seminars, laboratory exercises 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

written assignment, seminar and written 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
• 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.

f. There is no facility to improve the grade Fx to a pass grade in this course.

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 Molecular Biology and Genome Analysis 15 hp (BI3600, BL8026).

Misc

The course is a component of the Master's Programmes in Biology, Microbiology and Molecular Life Sciences, 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.