

# Syllabus

for course at advanced level

**Infection Biology**  
**Infektionsbiologi**

**15.0 Higher Education  
Credits**  
**15.0 ECTS credits**

<b>Course code:</b>	BL8058
<b>Valid from:</b>	Autumn 2015
<b>Date of approval:</b>	2015-08-21
<b>Department</b>	Department of Biology Education
<b>Main field:</b>	Biology
<b>Specialisation:</b>	A1F - Second cycle, has second-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 Immunology 15 hp (BL4003) and Microbiology 15 hp (BL7045). (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
HELA	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 strategies to combat infections and understanding how pathogens spread and cause disease
- explain and use advanced methods in infection biology
- search, analyse and compile scientific information and communicate it to peers

## 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 and oral presentations as well as written examination.

If the instruction is in English, the examination may also be conducted in English.

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 an ordinary examination are entitled to sit additional examinations as long as the course is offered. There is no restriction on the number of examinations. Examinations also include other obligatory elements of the course. Students who have passed an examination may not resit it in order to achieve a higher grade. Students who have failed on two occasions are entitled to request the

appointment of a different examiner for the next examination. Any such request must be made to the departmental board.

The course has at least two examinations (if required: for each element) for each academic year in the years in which instruction is provided. Intervening years include at least one examination.

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 Infection Biology 15 hp (BL8035) or the equivalent.

### **Misc**

The course is part of the Matser's Programme in Microbiology, but can also be read as a separate course.

### **Required reading**

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