

Syllabus

for course at advanced level

Immunology
Immunologi

**15.0 Higher Education
Credits**
15.0 ECTS credits

Course code:	BL7074
Valid from:	Autumn 2023
Date of approval:	2023-02-07
Department	Department of Biology Education
Main field:	Biology
Specialisation:	A1N - Second cycle, has only first-cycle course/s as entry requirements

Decision

This course syllabus was approved by the Board of Science at Stockholm University on February 7, 2023.

Prerequisites and special admittance requirements

For admission to the course, knowledge is required equivalent to 120 credits, including 30 credits in chemistry of which at least 7,5 credits be biochemistry, as well as Cellular and molecular biology 30 credits. English 6 or equivalent.

Course structure

Examination code	Name	Higher Education Credits
DEL1	Theory	7.5
DEL2	Laboratory Exercises	6
DEL3	Project	1.5

Course content

a. The theory part of the course deals with immunochemical concepts and methods, immunobiological questions regarding the induction and regulation of the humoral, cell-mediated and natural immune response, as well as the evolution of the immune system. The medical-clinical aspects of the immune system are also covered. The laboratories include both immunochemical and immunobiological aspects. The project work consists of group work on a current immunological topic. The course provides a basis for further research studies in immunology and related areas as well as for work within county councils, the pharmaceutical industry and the biological-chemical industry with immunological applications.

b. The course consists of the following modules:

Module 1: Theory 7,5 credits

Module 2: Laboratory exercises 6 credits

Module 3: Project 1,5 credits

Learning outcomes

After completing the course, the student is expected to be able to:

- give a detailed description of the cellular and humoral components of the immune system (modules 1 and 3)
- explain the development, function and regulation of the immune system in both physiological and pathological contexts (modules 1 and 3)

- master basic immunological techniques (module 2)

Education

Teaching consists of lectures, laboratory exercises, group instruction with discussions, project work and oral and written presentations.

The course is offered in English.

Forms of examination

- The course is examined as follows: Assessment of module 1 takes place through written and oral tests. Assessment of module 2 takes place through laboratory reports. Assessment of module 3 takes place through written and oral presentations. The examiner can decide on adapted or alternative examination formats for students with disabilities. Late submission of laboratory reports for module 2 and presentation of module 3 have consequences for the course's final grade, which is described in more detail in the course's grading criteria. The examination will be conducted in English.
- A passing final grade requires participation in laboratory exercises, group instruction, and project work. If special reasons exist, following consultation with the teacher involved, the examiner may grant the student exemption from the obligation to participate in certain compulsory instruction.
- Grading: The course's final grade is set according to a seven-point criterion-referenced scale:
A = Excellent
B = Very good
C = Good
D = Satisfactory
E = Adequate
Fx = Failed, some additional work is required
F = Failed, much additional work is required

Grades of all modules will be set according to a seven-point criterion-referenced scale.

A passing final grade requires passing grades on all included parts.

The final grade of the course is determined by weighing the grades from all course modules, where each grade is weighed in relation to the scope of the course modules.

- The course's grading criteria are handed out at the start of the course.
- Students who receive a failing grade on a regular examination are allowed to retake the examination as long as the course is still provided. The number of examination opportunities is not limited. Other mandatory course elements are equated with examinations. A student who has received a passing grade on an examination may not retake the examination to attain a higher grade. A student who has failed the same examination twice is entitled to have another examiner appointed, unless there are special reasons to the contrary. Such requests should be made to the department board. The course includes at least three examination opportunities for each course module per academic year the course is offered. For the academic years that the course is not offered, at least one examination opportunity is offered.
- There is no possibility to improve the grade Fx to a pass grade in this course.

Interim

Students may request that the examination be conducted in accordance with this course plan even after it has ceased to be valid. However, this may not take place more than three times over a two-year period after the course was discontinued. Requests must be made to the departmental board. The provision also applies in the case of revisions of the course syllabus and revisions of the required reading.

Limitations

This course may not be included in a degree together with the course Immunology (BL4003) or with equivalent courses.

Misc

This course is part of the Master's programme in Microbiology, but may also be taken as a separate course.

Required reading

The required reading is decided by the department board and published in Stockholm University's online course catalogue at least 2 months before the start of the course.