

Department of Biology Education

Syllabus

for course at second level

Immunologi

Immunology

15.0 Higher Education Credits

15.0 ECTS credits

Course code:	BL7074
Valid from:	Spring 2024
Date of approval:	2024-03-22
Changed:	2024-03-22
Department:	Department of Biology Education
Subject group:	Biology
Specialisation:	A1N - Second cycle, has only first-cycle course/s as entry requirements
Main field:	Biology

Decision

Finalized by: Områdesnämnden för naturvetenskap, 2024-03-22

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	6.0
DEL3	Project	1.5

Course content

a. The theoretical part of the course deals with immunochemical concepts and methods, immunobiological questions concerning the induction and regulation of the humoral, the cell-mediated and the natural immune response and the evolution of the immune system. The medical-clinical aspects of the immune defence are also covered. The laboratory sessions include both immunochemical and immunobiological elements. The project work consists of a group project on a current immunological topic.

b. The course consists of the following modules:

1. Teori (Theory) 7,5 hp
2. Laborationer (Laboratory Exercises) 6 hp
3. Projektarbete (Project) 1,5 hp

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 (module 1 and 3)
- describe the development, function and regulation of the immune system in both physiological and pathological contexts (module 1 and 3)
- master basic immunological techniques (module 2).

Education

Teaching consists of lectures, seminars, laboratory sessions, group instruction with discussions and project work.

The course is offered in English

Forms of examination

a. The course is examined as follows: Assessment takes place through:

Assessment of module 1 takes place through written and oral tests.

Assessment of module 2 takes place through laboratory accounts.

Assessment of module 3 takes place through oral and written presentations.

The examiner can decide on adapted or alternative examination formats for students with disabilities.

Late submission of the laboratory accounts in module 2 has consequences for the final grade of the course. These consequences are described in detail in the grading criteria of the course.

The examination will be conducted in English.

b. A passing final grade requires participation in laboratory sessions, seminars, 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.

c. 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.

Performance in quizzes is also weighed into the course's final grade.

d. The course's grading criteria are handed out at the start of the course.

e. Students who receive a failing grade on a regular examination are allowed to retake the examination as long as the course syllabus is still valid. The number of examination opportunities is not limited. 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 to the subsequent examination, 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 per academic year the course is offered. For the academic years that the course is not offered, at least one examination opportunity is offered. For practical course elements such as laboratory sessions, demonstrations, excursions, seminars and oral presentations, examination opportunities are only offered during the period of time when the course is given.

f. Students awarded the grade Fx are given the opportunity to improve their grade to E. The examiner decides on the supplementary assignments to be performed and the pass mark criteria. The supplementary assignments will take place before the next examination opportunity.

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. After the settlement period no more examination is given.

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.

The required reading is decided by the department board and published on the course page in the online catalogue at least 2 months before the start of the course.