



**Karolinska  
Institutet**

Course syllabus for

# **Advanced Course in Immune, Infection and Tumour Biology, 30 credits**

Avancerad kurs i immunologi, infektions- och tumörbiologi, 30 hp

This course syllabus is valid from autumn 2022.

Please note that the course syllabus is available in the following versions:

[Autumn2012](#) , [Autumn2014](#) , [Autumn2022](#)

Course code	2QA222
Course name	Advanced Course in Immune, Infection and Tumour Biology
Credits	30 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Biomedicine
Level	Second cycle, has second-cycle course/s as entry requirements
Grading scale	Pass, Fail
Department	Department of Microbiology, Tumor and Cell Biology
Decided by	Styrelsen för utbildning
Decision date	2012-01-31
Revised by	Education committee MTC
Last revision	2022-02-11
Course syllabus valid from	Autumn 2022

## **Specific entry requirements**

A minimum of 210 credits in medicine or natural sciences. At least 90 credits should be in one of the following subjects: biomedicine, biochemistry, biotechnology, cell- and molecular biology, medicine or equivalent. And proficiency in English equivalent to English B/English 6.

## **Objectives**

The aim of the course is to introduce the students to advanced practical and theoretical knowledge about how to perform a research project within immunology, infection biology or tumor biology.

Knowledge and understanding

On completion of the course, the student should be able to:

- \* explain and discuss the experimental methods used in their research project in their area of choice.
- \* explain theories and hypothesis based on their project in the research area of choice.
- \* explain the relevance of their obtained data in relation to current knowledge.
- \* have knowledge about career pathways in research

### Skills and ability

On completion of the course, the student should be able to:

- \* write a report in a scientific setting about the general knowledge and specific project within their field of research.
- \* present their scientific report orally.

### Assessments and attitudes

On completion of the course, the student should:

- \* to understand laboratory safety in the chosen laboratory
- \* to take part in discussions on the ethics of their work

## Content

The course comprises a basic subject orientation and also brings up safety aspects in laboratory work, and research-ethical issues.

A large part of the course is laboratory work in an established research group in immunology, infection biology or tumour biology, and literature search in the subject area. The student should also participate in seminars on current research projects.

### **Seminar series in immunology, infection or tumor biology, 3.0 hp**

Grading scale: GU

Practical experience and theoretical knowledge within a specific research project under supervision.

### **Research project, 27.0 hp**

Grading scale: GU

Practical experience and theoretical knowledge within a specific research project under supervision.

## Teaching methods

Experimental laboratory work, journal clubs, discussions and seminars.

## Examination

Part 1: The part is examined by a short report summarizing the seminars attended.

Part 2: The project is examined by a written report and an oral presentation of the experimental work at the end of the course.

A student who has failed in the regular examination, is entitled to participate in five more examinations. If the student has failed six examinations/tests, no more examination is offered. The number of times that the student has participated in one and the same examination is regarded as an examination session. Submission of a blank examination is regarded as an examination. An examination for which the student registered but not participated in, will not be regarded as an examination.

## Transitional provisions

Examination will be provided during a period of two years after a close-down of the course.

Examination may take place under a previous reading list during a period of one year after the date of the renewal of the reading list.

## Other directives

Language of instruction: English.

Course evaluation will be carried out according to the guidelines established by the Board of Higher Education.

## **Literature and other teaching aids**

Scientific literature of relevance for the work, chosen by the supervisor and the student.