



**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 2012.

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	Fail (U) or pass (G)
Department	Department of Microbiology, Tumor and Cell Biology
Decided by	Styrelsen för utbildning
Decision date	2012-01-31
Course syllabus valid from	Autumn 2012

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, medicine, or molecular biology. Proficiency in the English language should be documented by an internationally recognized test such as TOEFL: internet based (iBT) with a total score of at least 90 and minimum score of 20 on written test; paper based (PBT) with a total score of at least 575, and minimum score 4.5 on written test; or IELTS (academic) with an overall mark of at least 6.5 and no band less than 6.0; or other documentation that according to regulations certifies the equivalence of English B/English 6 at Swedish upper secondary school.

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 hp Seminars within respective research area that are relevant for the project. **Research project, 27 hp** Practical experience and theoretical knowledge within a specific research project under supervision.

Teaching methods

Experimental 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 Education. The course replaces the earlier course with course code 2FF011

Literature and other teaching aids