



Course syllabus for

Research Introductory Course for Biomedical Students 3, 10 credits

Forskningsintroducerande kurs för studenter på biomedicinprogrammet 3, 10 hp

This course syllabus is valid from spring 2023.

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

Spring2019 , Spring2023

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| Course code | 1QA120 |
| Course name | Research Introductory Course for Biomedical Students 3 |
| Credits | 10 credits |
| Form of Education | Higher Education, study regulation 2007 |
| Main field of study | Biomedicine |
| Level | First cycle, has at least 60 credits in first-cycle course/s as entry requirements |
| Grading scale | Pass, Fail |
| Department | Department of Microbiology, Tumor and Cell Biology |
| Decided by | Education committee MTC |
| Decision date | 2019-02-18 |
| Revised by | Education committee MTC |
| Last revision | 2022-12-19 |
| Course syllabus valid from | Spring 2023 |

Specific entry requirements

At least grade G (pass) on the courses *Introduction to biomedical science, General and organic chemistry, Cell, stem cell and developmental biology, Biochemistry, Genetics, genomics and functional genomics, Chemical biology, Biostatistics, Tissue biology, Immunology and microbiology, Neuroscience, Physiology, Pathology, Pharmacology and toxicology, The life science industry, Molecular medicine - oncology, and Molecular medicine - cardiometabolic and infectious diseases* within the Bachelor's Programme in Biomedicine. In addition, proficiency in English equivalent to English 6/English B is required.

Objectives

Upon completion of the course, the student shall:

Regarding knowledge and understanding

- demonstrate an understanding of basic research methodology,

Regarding skills and ability

- under supervision apply said knowledge in practice through research in a field of choice at Karolinska Institutet,

Regarding judgement and approach

- show a professional attitude to collegial cooperation, time planning and connection between theoretical and practical knowledge,
- in a reassuring way and with good order handle valuable scientific material,
- be able to carry out a project work in a research-ethical correct way.

Content

The course starts with an introduction in the possibilities and conditions of research, and research documentation. After this introduction, the students participate during approximately seven weeks of the summer (during a period agreed upon between the student and the supervisor) in a supervised research project at one of KI's departments. In total, approximately one of the weeks should be devoted to report writing and preparation for oral presentation.

Teaching methods

During the introduction, teaching will be in the form of lectures. Remaining part of the course is taught through a supervised practical project work.

Examination

Written report and oral presentation of the course project. (Fail/Pass)

Compulsory participation

The introduction, supervised research project seven weeks at a department within KI, and the project presentation. The course director determines if it is possible and if so how the student can compensate possible absence from compulsory parts. Before the student has participated in compulsory parts, or compensated for absence in accordance with the instructions of the course coordinator, the current part is not registered in LADOK (student registry).

Limited number of examinations or practical training sessions

Students who have not passed the course after their first presentation (written or oral) are entitled to rework their report and/or presentation and participate in five more presentations. If the student has not passed the course after four presentations, he/she is recommended to retake the course the next time it is held, with a new project. In connection with that course the student will be granted two more opportunities to present. If the student has failed six presentations, no additional presentation opportunity or possibility to retake the course will be offered.

Transitional provisions

After each course date, there will be at least six occasions for examination within a two-year period after the end of the course.

Other directives

The course is offered to students in semester six in KI's Bachelor programme in biomedicine. Course

evaluation will be carried out in accordance with the guidelines established by the Board of Education.
The course is given in English.

Literature and other teaching aids

Course literature

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