



**Karolinska
Institutet**

Course syllabus for

Life Science Industry, 4 credits

Life science industrin, 4 hp

This course syllabus is valid from spring 2025.

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

Spring2019 , Spring2020 , Spring2025

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| Course code | 1BI044 |
| Course name | Life Science Industry |
| Credits | 4 credits |
| Form of Education | Higher Education, study regulation 2007 |
| Main field of study | Biomedicine |
| Level | G2 - First cycle 2 |
| Grading scale | Fail (U), pass (G) or pass with distinction (VG) |
| Department | Department of Learning, Informatics, Management and Ethics |
| Decided by | Programnämnden för biomedicinprogrammen |
| Decision date | 2018-10-30 |
| Revised by | Programme committee for study programmes in biomedicine |
| Last revision | 2024-10-10 |
| Course syllabus valid from | Spring 2025 |

Specific entry requirements

At least grade pass (G) at the courses Introduction to biomedical science; General and organic chemistry; Cell-, stem cell and developmental biology; Biochemistry; Genetics, genomics and functional genomics; Chemical biology; and Tissue biology, and at least grade pass (G) at the parts Laboratory work and seminars (4 credits) and Project work (2 credits) of the course in Immunology and microbiology, and the part Practical features (4 credits) of the course Neuroscience, at the Bachelor's programme in Biomedicine.

Objectives

This course introduces students to the life science industry.

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

Regarding knowledge and understanding

- Describe the life science industry and explain the interrelationships between the major stakeholders in this industry,
- Discuss the specific conditions that apply to companies in the life science industry when it comes

to e.g regulations and intellectual property rights

Regarding skills and ability

- Apply tools for creativity and entrepreneurship.

Content

The course will give an introduction to the life science industry with a focus on pharmaceutical industry. The course will also introduce medical devices and biotechnology focused on patient benefit.

Teaching methods

The students are assumed to be familiar with the most common study methods in higher education. The fundamental pedagogical view is based on entrepreneurial learning and requires active learning and student participation. Teaching will be in the form of lectures, seminars and workshops.

Examination

The examination consists of:

- An individual assignment (Fail/Pass/Pass with distinction),
- A group written assignment (Fail/Pass).

In order to pass the course as a whole, the students must obtain at least the grade pass on all examinations. To obtain the grade "Pass with distinction" for the entire course, the student must obtain "Pass with distinction" for the individual assignment and the grade "Pass" for the group assignment.

Compulsory participation

Participation at seminars, workshops and presentations is compulsory. The course director decides if and in that case how absence may be compensated. Before the student has participated in compulsory parts, or compensated absence in accordance with the course director's instructions the student's results on respective part will not be registered in LADOK.

Limited number of examinations

Students who have not passed the regular examination are entitled to participate in five more examinations. If the student has failed six examinations/tests, no additional examination or new admission is provided.

Participation in an examination is defined as an occasion on which a student attends an examination, even if the student submits a blank examination paper. If a student has registered to sit an examination, but does not attend the examination, this is not defined as participation in the examination.

If there are special grounds, or a need for adaptation for a student with a disability, the examiner may decide to deviate from the syllabus's regulations on the examination form, the number of examination opportunities, the possibility of supplementation or exemptions from the compulsory section/s of the course etc. Content and learning outcomes as well as the level of expected skills, knowledge and abilities may not be changed, removed or reduced.

Transitional provisions

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

Other directives

The course language is English.

Course evaluation will be carried out in accordance with the guidelines established by the Board of Higher Education.

Literature and other teaching aids

Mandatory Course material

The course leader will provide mandatory literature in the form of scientific articles, industry reports and case studies.