

Project Course: Bioentrepreneurship

Programme course

6.0 credits

Projektkurs: Bioentreprenörskap

8BKG25

Valid from: 2020 Spring semester

Determined by

The Board for First and Second Cycle
Programmes at the Faculty of Medicine
and Health Sciences

Date determined

2017-08-22

Revision date

2018-08-24

Main field of study

Medical Biology

Course level

First cycle

Advancement level

G2X

Course offered for

- Experimental and Industrial Biomedicine

Entry requirements

General entry requirements for undergraduate studies
and

English corresponding to the level of English in Swedish upper secondary
education (English 6)

And

Chemistry, Mathematics and Biology corresponding to the level in Swedish upper
secondary education (Chemistry 2, Mathematic 4 and Biology 2)

Exemption from Swedish 3

Intended learning outcomes

Knowledge and understanding

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

- Describe quality assurance systems for biomedical methods in healthcare, industry and research
- Describe basic legal and regulatory issues relating to the commercialisation and quality assurance of biomedical science

Skills and abilities

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

- Formulate a commercially viable requirement specification for the project based on a project directive and use this to assess the feasibility of the project with respect to biomedical solutions and available resources
- Demonstrate their ability to independently carry out project work in accordance with a project model
- Establish a business plan in order to utilise innovative ideas within biomedicine on commercial grounds
- Present a finished product orally and in writing to recipients who are not necessarily specialists in the techniques that are being applied
- Identify and manage uncertainties in projects and commercial processes

Judgement ability and approach

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

- Critically process commercially viable ideas within biomedicine from a social and ethical perspective

Course content

This is a basic course that covers theory and practical work concerning how to commercialise a biomedical concept and develop it into a product. This encompasses both understanding legal and regulatory issues relating to commercialisation, quality assurance of biomedical science and translating this into a business plan. Students are also trained in verbal and written presentation techniques and communication. The aim of the course is to reach an understanding of the commercialisation process in the development of a biomedical product or service, and to view this from an ethical and social perspective.

The course encompasses the fields, bioentrepreneurship, project management, biomedical improvement studies, evidence-based healthcare, biomedical communication, biomedical application and utilisation.

Teaching and working methods

At the Faculty of Medicine and Health Sciences student centred and problem based learning make up the foundation of the teaching. The student takes responsibility for, studies and researches current content of the courses and study programme. The methods of the course work challenge the students to independently formulate questions for learning, to seek knowledge and in dialogue with others judge and evaluate achieved knowledge. Students in the Bachelor's programme in Experimental and Industrial Biomedicine work together in groups based on reality based and course related biomedical issues to apply their knowledges, develop their own learning, contribute to the fellow students' learning and to practice cooperation. Throughout the study programme theory is integrated with practical modules. The course methods and integration modules stimulates and support the student's ability to apply their knowledge and professional competence.

Work methods used in this course are lectures, seminars and work in project groups.

Examination

The forms of examination are a written project report and an oral presentation that is carried out as part of a group but assessed individually. In addition, active participation in compulsory course elements is required in order to pass the course. Compulsory course elements include project work, seminars, reports and written assignments.

The written project report and the oral presentation are resource-demanding forms of examination and are limited to five attempts.

Point of time for retake examination must normally be announced no later than the time of the regular examination. The extent of the retake examination must be the same as the regular examination.

CHANGE OF EXAMINER

A student who has obtained a failing grade twice for a course or a part of a course is, after request, entitled to be appointed another examiner, unless there are special reasons to the contrary.

APPLICATION FOR EXAMINATION / WRITTEN EXAM

Instructions on how to apply for examinations are given prior to the beginning of each course.

Grades

Two grade scale, older version, U, G

Course literature

A literature reference list must be set no later than two months before the course begins by the programme committee for the Bachelor's Programme in Experimental and Industrial Biomedicine. There is no compulsory course literature.

Other information

Planning and implementation of the course is to be based on the wordings in the course syllabus. A course evaluation is compulsory for each course and should include how the course is in agreement with the course syllabus. The course coordinator will analyse the course evaluation and propose appropriate development of the course. The analysis and proposal will be returned to the students, the Director of Studies, and as needed to the Education Board, if related to general development and improvement.

The course is carried out in such a way that knowledge of gender, gender identity/expression, ethnicity, religion or other belief system, disability, sexual orientation and age is addressed, highlighted and communicated as part of the programme.

If the course is cancelled or undergoes major changes, examination is normally offered under this course syllabus, at a total of three occasions, within/in connection to the two following semesters, of which one in close proximity to the first examination.

Department

Medicinska fakulteten