



INSTITUTE OF MEDICINE

MED945 Development work based on complex problems in healthcare, 7.5 credits

Utvecklingsarbete baserat på komplexa problem inom hälso- och sjukvård, 7,5 högskolepoäng

Second Cycle

Confirmation

This course syllabus was confirmed by Institute of Medicine on 2021-02-08 to be valid from 2021-09-01, autumn semester of 2021.

Field of education: Medicine 100%

Department: Institute of Medicine

Position in the educational system

This is an elective course.

Main field of studies

Business Creation and Entrepreneurship in Biomedicine

Specialization

A1N, Second cycle, has only first-cycle course/s as entry requirements

Entry requirements

Qualified to be admitted to the course is a student who has; Bachelor's degree / Bachelor's degree of at least 180 higher education credits in any of areas of health science, social science, natural sciences, economic sciences, humanities or engineering sciences, as well rating Passed/E in English B/English 6.

Learning outcomes

On successful completion of the course the student will be able to:

Knowledge and understanding

- Identify and describe for distinctive features in a specific innovation process.
- Describe how the value of an innovation in healthcare is affected depending on how, where and by whom they are utilised.
- Describe economic and sustainability aspects of innovation.

Competence and skills

- Identify and analyze potential problem formulations / problem perspectives by interacting with healthcare professionals, researchers and/or experts through a specific innovation process.
- Visualize solutions to complex problems in healthcare.
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Judgement and approach

- Critically process, analyse and produce value visions for utilization in relation to human-centered needs (from healthcare) and innovation at an early stage.
- Evaluate different problem perspectives and ideas within a specific innovation process.
- Critically evaluate different methods and tools for strategically planning the development work within a specific human-centered innovation process.

The course is sustainability-related, which means that at least one of the learning outcomes clearly shows that the course content meets at least one of the University of Gothenburg's confirmed sustainability criteria.

Course content

The course is built around project work and seminars that will give the student the prerequisites to learn skills and tools necessary for practical development work in early innovation projects, specifically with a focus on healthcare. The course will develop the student's knowledge in problem analysis, design of solutions, evaluation and packaging of early innovations. In the application, the student must analyze specific problems according to a process that minimizes bias when developing solutions. Solutions must then be methodically produced in collaboration with stakeholders. The focus is on exploring complex problem identification and design of needs-based innovations in healthcare.

Form of teaching

The teaching is based on seminars in parallel with case studies based on identified needs in health care. Students work in groups with an entrepreneurial approach and scientific models to observe, map, analyze and evaluate development work for each application

project.

Language of instruction: English

Assessment

The student is examined through an assessment portfolio consisting of a presentation of the application project in groups, as well as a written individual assignment. The student also need a pass on mandatory parts in the form of active participation in a group work and 5 seminars described in the course guide. Absence at seminars will be replaced by individual written assignments.

A student who has taken two exams in a course or part of a course without obtaining a pass grade is entitled to the nomination of another examiner. The student needs to contact the department for a new examiner, preferably in writing, and this should be approved by the department unless there are special reasons to the contrary (Chapter 6 Section 22 of the Higher Education Ordinance).

If a student has received a recommendation from the University of Gothenburg for special educational support, where it is compatible with the learning outcomes of the course and provided that no unreasonable resources are required, the examiner may decide to allow the student to sit an adjusted exam or alternative form of assessment.

In the event that a course has ceased or undergone major changes, students are to be guaranteed at least three examination sessions (including the ordinary examination session) over a period of at least one year, but no more than two years, after the course has ceased/been changed. The same applies to placements and professional placements (VFU), although this is restricted to just one additional examination session.

Grades

The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U).

For the grade Pass (G) on the entire course, the grade Pass on the assessment portfolio and the grade Pass for mandatory parts are required.

For the grade Pass with Distinction (VG) on the entire course, the grade Pass with Distinction on the assessment portfolio and the grade Pass with Mandatory parts are required.

Course evaluation

Course evaluation is done in writing through a questionnaire. The course teacher compiles the results of the course evaluation and gives suggestions for the development

of the course.

The results of and possible changes to the course will be shared with students who participated in the evaluation and students who are starting the course.

Additional information

The course is given via distance education and requires a computer with connection to the internet and the opportunity to interact via web camera. Distance education does not refer to time independence but only to geographical independence.