



FHK3008 Clinical Innovation and Design for PhD students 9.0 credits

Klinisk innovation och design för doktorander

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for FHK3008 valid from Spring 2020

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Enrolled as PhD student at KTH, KI, SU, or SSE. Short written explanation why you think this course is interesting for your PhD education, and what you can contribute to an interdisciplinary team.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The students learn how to use the BioDesign process to create innovations within health and healthcare.

After a finished course, the student should be able to:

1. describe the different parts of in the Biodesign process
2. describe how to perform the different steps in Sweden and Europe
3. argue why the steps are and why they happen in that order as they do
4. apply the Biodesign method: based on an observed need from reality (which is given to them) students should be able to validate and develop a solution and write a business plan.
5. select the appropriate criteria in order to perform necessary validation, solution generation and solution validation.
6. generate a business plan in such a way that it can persuade a venture capitalist to invest in their solution.
7. understand how the Biodesign process can be used in their own current and future research

Course contents

The course consists of:

- Evening Seminars
- Individual work
- Group project
- Feedback from experts

Examination

- INL1 - Hand in assignment, 0.5 credits, grading scale: P, F
- PRO1 - Project, 3.5 credits, grading scale: P, F
- PRO2 - Project, 2.5 credits, grading scale: P, F
- SEM1 - Seminar, 2.5 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

- Group project with Presentation, 3,5 ETCS
- Presentation, 2,5 ETCS

- Seminars, 2,5 ETCS
- Written assignment, 0,5 ETCS

Other requirements for final grade

Part 1:

- Active participation in seminars 2.5 ETCS
- Poster presentation 2.5 ETCS. Approved poster presentation required to participate in Part 2 of the course.

Part 2:

- Group work with oral presentation 3.5 ETCS
- Written assignment, 0.5 ETCS

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.