CM2030 Health Systems: Production and Logistics 7.5 credits

Hälsosystem: Produktion och logostik

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

The course plan with diary no. C-2024-1629 applies from HT 2025 according to faculty board decision: C-2024-0635. Decision date: 2024-10-02

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Technology and Health

Specific prerequisites

English 6

Knowledge of programming, 6 hp

Language of instruction

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

Intended learning outcomes

After passing the course, the student must be able to

- Describe and analyze a patient journey through the care system

- Discuss a healthcare system with concepts from systems analysis and logistics

- Propose imporvement measures for a health system using analytical methods including simple simualtions

Course contents

The course deals with how care and health systems are structured and what challenges exist from a production and logistical perspective. In different steps, the student will learn about:

- Global challenges for sustainable health systems

- Systems science methods for analyzing healthcare systems from different perspectives, including a patient journey.

- Logistical concepts and methods for describing and analyzing the production of care.

- The role of health data in systems analysis

Examination

- INL1 - Project report, 4.0 credits, grading scale: P, F
- INL2 - Take-home examination, 3.5 credits, grading scale: A, B, C, D, E, FX, 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.

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.