



# FMF3041 Literature Course in Complex Systems 4.0 credits

Litteraturkurs i komplexa system

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 syllabus applies from VT 2024 according to faculty board decision: M-2024-0018. Decision date: 2024-08-26

## Grading scale

P, F

## Education cycle

Third cycle

## Specific prerequisites

Admitted to the doctoral programme Engineering Design.

## Language of instruction

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

## Intended learning outcomes

After completing the course, students will present a summary of the state of knowledge in a selected area within the field of Complex Systems. The summary must contain:

1. Challenges and trends in the field of Complex Systems, with particular focus on systems involving technology, people and society
2. Current research questions and research methods used in the field
3. State-of-the-art report

## Course contents

In the course, a literature study should be carried out, and summarized in a report. The literature chosen should be within the field of Complex Systems. The literature should contain both basic references within the domain (for example books, book chapters, or journal publications), and current research publications. Aspects that should be highlighted include: problem formulation, solution methods and their weaknesses and strengths, trends in the field, views towards possible future research questions.

The results are reported partly in a written report, partly in an oral presentation.

## Examination

- INL1 - Assignment, 3.5 credits, grading scale: P, F
- SEM1 - Seminar, 0.5 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.

## 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.