



MH1039 Circular Material Processes 4.5 credits

Cirkulära materialprocesser

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

Establishment

The official course syllabus is valid from the autumn semester 2025 according to the decision by the Faculty Board: M-2024-0018. Date of decision: 2024-10-14.

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

General entry requirements.

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 shall be able to:

1. Explain the principles of circular materials processes and be able to apply them to some common materials (e.g. metals and polymeric materials).
2. Independently solve materials-related problems and present solutions orally and in writing.
3. For a grade E the student must be able to:
Explain how the properties of different processes and materials contribute to circular material processes.
For higher grades:
Analyse and question the constraints and challenges in linking different processes and materials.

Course contents

- Materials and available resources in areas such as metals and polymeric materials.
- Processes and recycling of e.g. metals and polymeric materials.
- Recycling and reutilisation of e.g. metals and polymeric materials.

Examination

- PRO1 - Project, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- KON1 - Partial exam, 1.5 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.

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

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.