

COURSE SYLLABUS

Circular Metal Supply Chains, 5 credits

Cirkulära försörjningskedjor för metall, 5 högskolepoäng

Course Code:	T2CFFM	Education Cycle:	Second-cycle level
Confirmed:	Feb 01, 2025	Disciplinary domain:	Technology
Revised:	Oct 13, 2025	Subject group:	Materials Technology
Valid From:	Jan 19, 2026	Specialised in:	A1N Second cycle, has only first-cycle course/s as entry requirements
		Main field of study:	Industrial Engineering and Management

Intended Learning Outcomes (ILO)

On completion of the course the student shall:

Knowledge and understanding

- demonstrate comprehension of the purchasing function's contribution to a sustainable and circular business model as well as competitive products.

Skills and abilities

- demonstrate skills of explaining how digital tools such as digital product passports can be used to ensure transparency in the supply chain
- demonstrate the ability to conduct efficient internal communication across functional borders and external communication between actors in the supply chain

Judgement and approach

- demonstrate the ability to compare the sustainability impact between different materials (metals/alloys) and different suppliers

Content

The course includes the following elements:

- Digital product passports
- Life cycle analysis
- How the transition towards circular economy affects the purchasing function
- How to communicate across functional borders and between different actors in the supply chain
- How changes in the market (in terms of, for example, customer requirements), legislations, and production processes (mega casting) affect purchasing and the supply chain.

Type of instruction

Lectures, assignments and seminars.

Language of instruction is in English.

Entry requirements

Academic degree of at least 180 ECTS within Engineering and/or Business Administration **OR**

Passed courses of at least 40 ECTS in the main field of study within Engineering and/or Business Administration and at least 1 year of work experience in the field of Purchasing/ Logistics/ Supply chain management **OR**

At least 4 years of work experience in the field of Purchasing/Logistics/Supply chain management **AND**

Equivalent to the Swedish upper secondary course English 6.

Examination and grades

The course is graded Pass (G) or Fail (U).

The final grade will be issued after satisfactory completion of all mandatory examination elements.

Registration of examination:

Name of the Test	Value	Grading
Assignment	2.5 credits	G/U
Seminar	2.5 credits	G/U

Course literature

Please note that changes may be made to the reading list up until eight weeks before the start of the course.

Lecture slides and course literature will be provided on Canvas.