



Faculty of Social Sciences

SMMV36, Intermodality and Traceability in Transport Systems, 15 credits

Intermodalitet och spårbarhet i transportsystem, 15 högskolepoäng
Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by the board of the Department of Service Management and Service Studies on 2020-02-26 to be valid from 2020-08-31, autumn semester 2020.

General Information

The course is included in the third semester of the Master of Science (120 credits) programme in Service Management and is the fourth course specific to the specialisation in Supply Chain Management.

Language of instruction: English

Learning outcomes

For a Pass on the course, the student shall

Knowledge and understanding

- demonstrate specialised knowledge of the organisation and structure of the intermodal supply chain and its components
- demonstrate specialised knowledge of the economics and energy and environmental load of transport systems from a supply chain perspective
- demonstrate specialised knowledge of how the digitalisation of logistics and increased use of e-commerce applications develop the supply chains of organisations
- demonstrate specialised knowledge of ongoing national and international trends and projects with regard to digitalisation of supply chains and e-commerce activities from a supply chain perspective

Competence and skills

- demonstrate the ability to discuss, argue for and apply appropriate theories of supply chains to develop logistics in different applications
- demonstrate the ability to use theoretical and practical methods and models for analysis and evaluation of supply chains
- demonstrate the ability to analyse and develop processes, understand and manage challenges and consequences to enable digitalisation of supply chains
- demonstrate the ability to develop and analyse topical case studies based on digitalisation and e-commerce with a focus on supply chains

Course content

The aim of the course is to develop knowledge and understanding of sustainable supply chains and of how supply chains are affected by increased digitalisation and implementation of e-commerce. The student is to work with theories and practical applications that include the following:

- The mobility of the transport system is based on the components of the intermodal system which consist of the nodes and terminals of the supply chain.
- The energy use, economics and environmental impact of the transport system are addressed from a global perspective, applying accessibility and interaction aspects to the study of supply chains.
- How increased digitalisation of supply chains affects the companies' logistics development and results in new challenges for companies.

Course design

The teaching consists of lectures, workshops, supervision sessions, seminars, reflection papers and study visits.

Compulsory participation is required in seminars, workshops and study visits unless special circumstances apply. Students who have been unable to participate due to circumstances such as accidents or sudden illness will be offered the opportunity to compensate for or re-take compulsory components. This also applies to students who have been absent because of elected office duties, e.g. as a student representative.

Assessment

The assessment is based on four components:

Intermodal transport systems

- Component 1 is assessed through an individual invigilated exam(4.5 credits).
- Component 2 is assessed through an individual case study that is to be reported in both speech and writing (3 credits).

Digitalisation and e-commerce

- Component 3 is assessed through an individual reflection paper (2.5 credits).
- Component 4 is a project in groups. The project is to be presented as a written report to be discussed at a seminar (5 credits).

The course includes opportunities for assessment at a first examination, a re-sit close to the first examination and a second re-sit for courses completed in the past year (catch-up exam). At least two further re-examinations on the same course content are offered within a year of a major change to, or discontinuation of, the course. After

this, further re-examination opportunities are offered, but in accordance with the current course syllabus.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, E, D, C, B, A.

The grade for a non-passing result is Fail. The student's performance is assessed with reference to the learning outcomes of the course. For the grade of E, the student has demonstrated acceptable results. For the grade of D, the student has demonstrated satisfactory results. For the grade of C, the student has demonstrated good results. For the grade of B, the student has demonstrated very good results. For the grade A, the student has demonstrated excellent results. For the grade of Fail, the student has demonstrated unacceptable results.

All assessment components are assigned points between 0 and 100 and grades according to the following scale:

A: 90-100 points
 B: 80-89 points
 C: 70-79 points
 D: 60-69 points
 E: 50-59 points
 Fail: 0-49 points

For a grade of Pass, the student must have been awarded at least the grade of E for all four assessed components: written exam (4.5 credits), case study (3 credits), reflection paper (2.5 credits) and project (5 credits). The student's grades for each component are aggregated in the following way: $(4.5/15 * \text{number of points for component 1} + 3/15 * \text{number of points for component 2} + 2.5/15 * \text{number of points for component 3} + 5/15 * \text{number of points for component 4})$. The aggregated grade determines the final grade.

At the start of the course, students are informed about the learning outcomes stated in the syllabus and about the grading scale and how it is applied on the course.

Entry requirements

To be admitted to the course, the student must have completed at least 45 credits within the Master of Science (120 credits) programme in Service Management prior to the third semester of the programme, 7.5 credits of which must be from the introductory course of the programme and 7.5 credits from the introductory course specific to the student's specialisation.

Further information

The course replaces SMMR34 Transport Systems, Intermodality and Traceability and may not be included in a degree together with this course.

Subcourses in SMMV36, Intermodality and Traceability in Transport Systems

Applies from H20

- 2001 Written exam, 4,5 hp
Grading scale: Fail, E, D, C, B, A
- 2002 Case, 3,0 hp
Grading scale: Fail, E, D, C, B, A
- 2003 Reflection paper, 2,5 hp
Grading scale: Fail, E, D, C, B, A
- 2004 Project work, 5,0 hp
Grading scale: Fail, E, D, C, B, A