



## Course syllabus

School of Business and Economics

Department of Management Accounting and Logistics

2FE084 Fördjupningskurs I i logistik, 30 credits

Specified Course I in Business Logistics

### **Main field of study**

Business Administration

### **Subject Group**

Business Administration

### **Level of classification**

First Level

### **Progression**

G2F

### **Date of Ratification**

Approved 2016-03-23

Revised 2022-03-14 by School of Business and Economics. Language adjustment of objectives and content and revision of prerequisites and update of standard texts.

The course syllabus is valid from autumn semester 2022

### **Prerequisites**

- Business Administration, level G1N/F, 60 credits, or the equivalent
- English 6, or the equivalent.

## Objectives

### **Module 1: Distribution Management, 6 credits**

After completing this module the student should be able to:

- account for distribution activities, distribution structures and explain different actors roles within the distribution channel
- explain IT as an enabler in the distribution channel
- explain sustainability aspects related to the supply chains
- apply transportation and logistics law with a focus on Incoterms
- apply safety stock dimensioning, delivery service calculation and advanced inventory management

### **Module 2: Production Management, 6 credits**

After completing this module the student should be able to:

- explain the key production management decisions on tactical and operational level and the influence these have on the logistics system and in society at large
- search for, select and use the appropriate data to make these types of production management decisions

### **Module 3: Logistics Quality and Process Management, 6 credits**

After completing this module the student should be able to:

- account for basic concepts in quality and quality management
- apply quality tools and models for customer satisfaction in a logistics perspective
- explain the impact of process orientation and process management for the development of logistics systems
- conduct process mapping and quality measuring in a limited area, identify and analyze quality deficiencies and critically discuss improvement suggestions

### **Module 4: Sustainable Purchasing and Negotiations, 6 credits**

After completing this module the student should be able to:

- discuss and contextualize knowledge of purchasing, materials supply and sustainability
- apply models for purchasing
- perform quantitative purchasing analyses
- perform business negotiations

### **Module 5: Project within Business Logistics, 6 credits**

After completing this module the student should be able to:

- formulate and critically discuss questions for a limited reality-based logistics problem
- plan and conduct a logistics project in a real company/a real organisation
- search and select applicable theory and apply logistics knowledge on a real problem
- critically discuss empirical data in relation to the selected theory
- report in written form and present and discuss findings in different contexts (in seminars and at the company)

## Content

### ***Module 1 Distribution Management 6 credits***

#### **Objectives**

The module contains:

- distribution activities, distribution structure; definitions, inventory structures, physical flows, ordering systems and delivery service
- actors roles and IT solutions within the distribution channel
- basic transportation and logistics law, the use of Incoterms
- sustainability aspects of the supply chains
- quantitative models; for flow analyses in the distribution channel and safety stock dimensioning of distribution stocks

### ***Module 2 Production Management 6 credits***

#### **Objectives**

The module contains:

- forecasting methods; qualitative and quantitative
- material planning and production control; techniques and methods for planning and control of material flows in different planning horizons and production environments; methods with particular focus are master production scheduling, order planning, capacity planning and operation planning
- methods for lot sizing with limited capacity, variable demand, periodic/continuous inspection
- manufacturing process types and the related generic production layouts

### ***Module 3 Logistics Quality and Process Management 6 credits***

#### **Objectives**

The module contains:

- quality management - central concepts, approaches to continuous improvement, quality measurements and quality tools
- quality systems - the ISO9000/ISO9000:2000 series, quality management principles
- customer satisfaction - importance, measurement methods
- process management - central concepts
- development of processes - process mapping, process design, control and improvement

### ***Module 4 Sustainable Purchasing and Negotiation 6 credits***

#### **Objectives**

The module contains:

- sustainability in a purchasing / procurement context - ethics, CSR and codes of conduct
- the roles and objectives of purchasing, its strategical importance
- purchasing strategies, principles and models

- the purchasing process
- public procurement
- quantitative purchasing analysis
- supplier evaluation and supplier development, network thinking
- negotiations
- the organisation of purchasing
- computer labs

### ***Module 5 Project within Business Logistics 6 credits***

#### **Objectives**

The module contains:

- project work at a company, approximately 1-2 days a week during one semester
- project work out of a perceived company- identified problem
- problem discussion, limitation and practical planning
- literature search and review
- data collection and analysis
- written presentation and in seminars
- report writing
- reporting in the company and at a final seminar

#### **Type of Instruction**

##### **Module 1: Distribution Management, 6 credits**

The teaching consists of lectures and exercises seminars.

##### **Module 2: Production Management, 6 credits**

The teaching consist of lectures, exercises, cases, laboratory work and field visits.

##### **Module 3: Logistics Quality and Process Management, 6 credits**

Teaching consists of lectures, group assignment, tutorial meetings and seminars.

##### **Module 4: Sustainable Purchasing and Negotiation, 6 credits**

The teaching consists of lectures and negotiation exercises.

##### **Module 5: Project within Business Logistics, 6 credits**

Teaching consists of tutoring and seminars.

#### **Examination**

The course is assessed with the grades A, B, C, D, E, Fx or F.

##### **Module 1: Distribution Systems, 6 credits**

The module is examined through a written examination (4.5 credits), a computer laboration (0.5 credits) and a case (1 credit).

##### **Module 2: Production Management, 6 credits**

The module is examined through an individual written examination (5.5 credits) and a written group assignment (0.5 credits).

##### **Module 3: Logistics Quality and Process Management, 6 credits**

The module is examined through an individual written examination (3 credits) and a paper (3 credits).

**Module 4: Sustainable Purchasing and Negotiation, 6 credits**

The module is examined through an individual written examination (3 credits), computer-based laboration with associated project report (1.5 credits) and activity participation and exercises during seminars (by 0,5 credits and 1 credits).

**Module 5: Project within Business Logistics, 6 credits**

The module is examined through follow-ups that are presented during seminars (6 credits).

**The following applies to all modules:**

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail. Grading criteria for the A–F scale are communicated in writing to the student by the start of the module at the latest, as well as how the weighting and weighting of grades on individual examining elements to the final course grade takes place. The basis for the student's grade is determined by the student's fulfillment of the objectives.

The grade of the course is a combined assessment from the grades of the various course modules. The combined assessment is based on the grades and the scope of the course (number of credits). The more extensive a module is, the greater impact it will have on the final grade. Module grades with the grading scale between G-U will not be considered into the combined assessment. However, a G is required for each of the modules in order to receive a final course grade.

Repeat examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University. An examiner can, in exceptional cases, decide that a student who is close to the level for a passing grade may carry out supplementary assignments in order to reach the passing grade.

If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to give a customised exam or to have the student conduct the exam in an alternative way.

**Course Evaluation**

During the implementation of the course or in close conjunction with the course, a course evaluation is to be carried out. Results and analysis of the course evaluation are to be promptly presented as feedback to the students who have completed the course. Students who participate during the next course instance receive feedback at the start of the course. The course evaluation is to be carried out anonymously.

**Credit Overlap**

The course cannot be included in a degree along with the following course/courses of which the content fully, or partly, corresponds to the content of this course: 2FE035 and 2FE070 with 30 credits each.

Module 1: 2FE055 and 2FE210 with 6 credits each.

Module 2: 2FE011, 2FE049:2, 2FE078:2 and 2FE211 with 6 credits each.

Module 3: 2FE012 and 2FE212 with 6 credits each.

Module 4: 2FE049:4, 2FE056, 2FE078:4, 2FE213 and 2FE216 with 6 credits each.

Module 5: 2FE014 and 2FE214 with 6 credits each.

**Required Reading and Additional Study Material**

**Module 1: Distribution Management, 6 credits**

Björklund, M. *Hållbara logistiksystem*. Studentlitteratur. Latest edition. About 150 pages.

Fredholm, P. *Logistik & IT - För effektivare varuflöden*. Lund: Studentlitteratur. Latest edition. About 250 pages.

Jonsson, P. & Mattsson S-A. *Logistik*. Lund: Studentlitteratur. Latest edition. About 100 pages.

Nahmias, S. *Production and Operations Analysis*. McGraw-Hill. Latest edition. About 100 pages.

Scientific articles. About 100 pages.

**Module 2: Production Management, 6 credits**

Nahmias, S. & Lennon Olsen, T. *Production and Operations Analysis*. Waveland Pr Inc. Latest edition. About 800 pages.

**Module 3: Logistics Quality and Process Management, 6 credits**

Bergman B. & Klefsjö, B. *Quality from customer needs to customer satisfaction*. Studentlitteratur. SLatest edition. About 600 pages.

Ljungberg, A. & Klefsjö, B. *Dare! Win! Business process orientation for everyone*. Studentlitteratur. Latest edition. About 160 pages.

Scientific articles. About 100 pages.

**Module 4: Sustainable Purchasing and Negotiation, 6 credits**

Monczka, R.M., Handfield, R.B., Giunpero, L.C., Patterson, J.L. & Waters, D. *Purchasing and Supply Chain Management*. Cengage Learning EMEA. Latest edition. About 530 pages.

Scientific articles as advised by the course coordinator. About 200 pages.

**Module 5: Project within Business Logistics, 6 credits**

Literature is selected together with the tutor.