

## COURSE SYLLABUS

### Logistics Engineering, 7.5 credits

*Teknisk logistik, 7.5 högskolepoäng*

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Course Code: TTOG15	Education Cycle: First-cycle level
Confirmed: Feb 06, 2025	Disciplinary domain: Technology
Valid From: Sep 01, 2025	Subject group: Other Subjects within Technology
	Specialised in: G1N First cycle, has only upper-secondary level entry requirements
	Main field of study: Industrial Engineering and Management

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### Intended Learning Outcomes (ILO)

On completion of the course the student shall:

#### Knowledge and understanding

- display knowledge of logistics and materials management and their role in an industrial setting, including knowledge of fundamental concepts, methods and models as well as topical research issues
- display knowledge of design, planning, and control of materials flows focusing on fundamental materials supply, production, distribution, and logistics goals and conflicts

#### Skills and abilities

- demonstrate the ability to design, plan, and control materials flows by means of calculating relevant logistics performance indicators, applying fundamental methods for materials planning and control, and differentiating logistics measures taken
- demonstrate the ability to identify, formulate, analyse and discuss relevant logistics issues and solutions and to plan and carry out logistics investigations
- demonstrate the ability to search for, gather, value, and critically interpret information in relevant logistics issues
- demonstrate the ability to present logistics investigations

#### Judgment and approach

- demonstrate the ability to suggest and compare different alternatives for design, planning, and control of materials flows focusing on fundamental materials supply, production, distribution, and evaluate their consequences and risks based on different performance indicators
- demonstrate the ability to apply a systems perspective

### Content

The course gives fundamental knowledge and abilities within logistics in an industrial setting. The focus is on logistics goals and performance indicators, stock functions, and materials planning and control.

The course includes the following elements:

- The logistics system
- Materials supply
- Products and production
- Distribution
- Customer service
- Logistics costs and tied-up capital
- Logistics performance indicators

- Stock
- Materials planning and control
- Differentiating

## Type of instruction

The instruction is given through lectures, lessons, seminars, and project work.

Language of instruction is in English.

## Entry requirements

General entry requirements and Mathematics 3b, English 6 with required grade passed in the Swedish upper secondary school system or international equivalent.

## Examination and grades

The course is graded 5, 4, 3 or U.

Registration of examination:

Name of the Test	Value	Grading
Written exam <sup>1</sup>	4 credits	5/4/3/U
Assignments	3.5 credits	G/U

<sup>1</sup>Determines the final grade of the course, which is issued only when all course units have been passed.

## Course literature

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

Bowersox, D.J., Closs, D.J., Cooper, M.B., and Bowersox, J.C., (latest edition), Supply Chain Logistics Management, McGraw-Hill Irwin