

## **Operations and Supply Chain Management, 15 HE credits**

*Logistik och verksamhetsledning, 15 hp*

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Established: 2024-02-15

Established by: Department of Engineering Science

Applies from: H24

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### **Learning outcomes**

After completing the course, the student should be able to:

#### **Knowledge and understanding**

- demonstrate knowledge of operations and supply chain management concepts and frameworks.
- show knowledge of a holistic view of operations and supply chain management.
- demonstrate knowledge of core problems and challenges in operations and supply chain management.
- demonstrate advanced knowledge of relevant theories and frameworks for operations and supply chain management.

#### **Competence and skills**

- show the ability to critically and systematically use knowledge of system theory, operations and supply chain management to address complex problems.
- demonstrate the ability to communicate operations and supply chain management problems and solutions to different audiences.
- demonstrate abilities required for participation in research and development work within the area of operations and supply chain management.

#### **Judgement and approach**

- show the capacity to make judgments regarding relevant scientific, social and ethical aspects and show awareness of ethical issues with regards to research and developmental work in operations and supply chain management.
- demonstrate the ability to identify their need for additional knowledge and to take responsibility for their own knowledge development in operations and supply chain management.

### **Entry requirements**

Bachelor of Science in business administration, informatics, system science, computer science, industrial engineering and management, mechanical engineering, electrical engineering, or equivalent. English equivalent to English course 6 in the Swedish upper secondary school.

### **The forms of assessment of student performance**

Individual written exam. Groupwise written assignment. Groupwise oral presentation.

### **Course contents**

The course is an advanced course which takes a comprehensive approach of operations and supply chain management and its connections to other disciplines. The course focuses on describing operations and supply chain management through the lens of systems theory, which reflects a holistic perspective. Key concepts and theories within operations and supply chain management are covered. Specific topics within operations and supply chain management are introduced, covering issues such as different types of flows (physical, information and commercial flows,) supply chain strategies, and the importance of time in supply chains.

### **Other regulations**

Course grading: F/Fx/E/D/C/B/A - Insufficient, Insufficient- more work required before the credit can be awarded, Sufficient, Satisfactory, Good, Very Good, Excellent

Course language: The teaching is conducted in English.

General rules pertaining to examination at University West are available at [www.hv.se](http://www.hv.se).

If the student has a decision/recommendation on special support due to disability, the examiner has the right to examine the student in a customized examination form.

### **Cycle**

Second cycle

### **Progressive specialization**

A1N - second cycle, has only first-cycle course/s as entry requirements

### **Main field of study**

Industrial Engineering and Management