

- Faculté des sciences économiques
- [www.unine.ch/seco](http://www.unine.ch/seco)

## Logistics and supply chain management (5EN1030)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
<b>Bachelor en sciences économiques, orientation comptabilité/finance</b>	<b>Cours: 2 ph</b>	<b>écrit: 2 h</b>	3
<b>Bachelor en sciences économiques, orientation économie politique</b>	<b>Cours: 2 ph</b>	<b>écrit: 2 h</b>	3
<b>Bachelor en sciences économiques, orientation management</b>	<b>Cours: 2 ph</b>	<b>écrit: 2 h</b>	3
<b>Bachelor en sciences économiques, orientation ressources humaines</b>	<b>Cours: 2 ph</b>	<b>écrit: 2 h</b>	3
<b>Bachelor en sciences économiques, orientation systèmes d'information</b>	<b>Cours: 2 ph</b>	<b>écrit: 2 h</b>	3

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

### Période d'enseignement:

- Semestre Automne

### Equipe enseignante:

Dr. Ruth Carrasco-Gallego.

Office hours: on Fridays by appointment

E-mail: [ruth.carrasco-gallego@unine.ch](mailto:ruth.carrasco-gallego@unine.ch); [ruth.carrasco@upm.es](mailto:ruth.carrasco@upm.es)

### Objectifs:

This course introduces the concept of Supply Chain Management, one of the key managerial areas in any organization, which comprises activities such as production, transportation, inventory management & warehousing, procurement, material handling, sales, and customer service. The course examines the logistics system that supports the materials flow in an organisation, from the supply of raw materials and components to the delivery of the final products or services to end customers, and provides the core frameworks and decision-making tools for the design, planning and control of the associated activities.

Through this course, students will be able to:

1. Understand the supply chain concept, different configurations of supply chains and the importance of supply chains to the success of a firm.
2. Understand the link between the supply chain strategy and the overall strategy of an organization and how to achieve it
3. Forecast demand in a supply chain
4. Understand the role of inventory in a supply chain and use different tools and models for managing stocks
5. Understand the role of aggregate planning and formulate and solve aggregate planning models
6. Assess the importance of distribution networks and use different options available for their design, including facility location models.
7. Assess the importance of the role played by information & communications technologies (ICT) in a supply chain, and identify major ICT applications
8. Understand the role of supply chain management in the economic, environmental and social sustainability of any organisation.

### Contenu:

The course will take place every two Fridays from 14h00 to 18h00.

The following sessions are planned:

- Session 1. September 18th
- Session 2. October 2nd
- Session 3. October 16th
- Session 4. October 30th
- Session 5. November 13th
- Session 6. November 27th
- Session 7. December 11th

In those sessions the following topics will be covered: supply chain concept and structure, demand forecasting, inventory management, aggregate planning, network design and facility location in supply chains, transportation operations, collaboration in supply chains and ICTs, strategic design of supply chains and sustainability.

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## **Logistics and supply chain management (5EN1030)**

### **Forme de l'évaluation:**

Assessment will be based on a combination of two exams and practical works that include group presentations, assignments, case studies and class participation.

TP: exercises, case studies, assignments, group presentations and class participation 40%

EI: mid-term exam 25%

E: final exam 35% (during the exam session)

Please note that plagiarism and cheating will not be tolerated.

### **Documentation:**

Chopra S., Meindl P. (2013) Supply Chain Management. Strategy, Planning and Operation. Global Edition. 5th edition. Pearson

### **Forme de l'enseignement:**

Classes will combine a set of different teaching methods and will use a practical approach: presentations of frameworks and course concepts, discussion of assignments, exercises and case studies, group presentations, etc.