

- 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 économie</b>	<b>Cours: 2 ph</b>	Voir ci-dessous	3
<b>Bachelor en sciences économiques, orientation management</b>	<b>Cours: 2 ph</b>	Voir ci-dessous	3
<b>Bachelor of Science en management et sport</b>	<b>Cours: 2 ph</b>	Voir ci-dessous	3
<b>Pilier B A - management</b>	<b>Cours: 2 ph</b>	Voir ci-dessous	3

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

### Période d'enseignement:

- Semestre Automne

### Equipe enseignante

Prof. Dr. Eng. Nicolas Zufferey, GSEM - University of Geneva, [n.zufferey@unige.ch](mailto:n.zufferey@unige.ch)

### Contenu

Schedule (13:15 - 17:00) and contents

Session 1: Linear Programming & Facility Location  
 Session 2: Graph Coloring & Transportation  
 Session 3: Balancing an Assembly Line / Questions & Answers  
 Session 4: Physical Internet and Resilient Supply Chains  
 Session 5: Distribution Requirement Planning (DRP)  
 Session 6: Flows in graphs & Logistics  
 Session 7: Discussion of papers / Questions & Answers

### Forme de l'évaluation

Form of the evaluation : E

There will be a 2-hour final exam (100% of the mark) covering the whole course, during the exam session. The exam is written and individual. Documents are forbidden. A basic calculator is allowed (containing only one line of information in its screen).

Retake exam: written exam (2 hours) during retake session (counts for 100% of the final grade).

Important: Documents are forbidden. Notes, texts, books and other documentation, as well as computers, connected phones and other connected electronic devices are not allowed in the examinations.

In case of violation of these rules, these items will be removed and the exam will be considered void.

### Modalités de rattrapage

Retake exam: written exam (2 hours) during retake session (counts for 100% of the final grade).

A basic calculator is allowed (containing only one line of information in its screen)

Important: Documents are forbidden. Notes, texts, books and other documentation, as well as computers, connected phones and other connected electronic devices are not allowed in the examinations.

In case of violation of these rules, these items will be removed and the exam will be considered void.

### Documentation

A copy of the slides (but not the ones with solutions) will be provided in PDF format.

There is no compulsory textbook. The student interested in going farther than the course can for example read the following documents.

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

### **Logistics and Supply Chain Management (5EN1030)**

- F. R. Jacobs, R. B. Chase (2013), Operations and Supply Chain Management, McGraw-Hill.
- R. B. Chase, F. R. Jacobs, and N. J. Aquilano (2004) Operations Management for Competitive Advantage, McGraw-Hill.
- W. L. Winston, and M. Venkataramanan (2002) Introduction to Mathematical Programming: Applications and Algorithms, Duxbury Press.

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

The professor will alternate between theoretical parts and the modeling/solution of exercises

#### **Objectifs d'apprentissage**

Au terme de la formation l'étudiant-e doit être capable de :

- Select efficient solutions
- Define decisions, constraints and goals
- Formulate an optimization problem

#### **Compétences transférables**

- Apply knowledge to new situations
- Carry out a critical analysis