- Faculté des sciences économiques
- www.unine.ch/seco

Logistics and Supply Chain Management (5EN1030)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Bachelor en sciences économiques, orientation économie	**Cours: 2 ph**	**Voir ci-dessous**	3
Bachelor en sciences économiques, orientation management	**Cours: 2 ph**	**Voir ci-dessous**	3
Bachelor of Science en management et sport	**Cours: 2 ph**	**Voir ci-dessous**	3
Pilier B A - management	**Cours: 2 ph**	**Voir ci-dessous**	3
Pilier principal B A - management	**Cours: 2 ph**	**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

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.

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.

• 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

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Objectifs d'apprentissage

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

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

Compétences transférables

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