

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

Energy Economics (5ER2032)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en développement international des affaires	Cours: 2 ph	Voir ci-dessous	3
Master en économie appliquée	Cours: 2 ph	Voir ci-dessous	3
Master en finance	Cours: 2 ph	Voir ci-dessous	3
Master of Arts en innovation, orientation Innovation et société	Cours: 2 ph	Voir ci-dessous	3
Master of Law en innovation	Cours: 2 ph	Voir ci-dessous	3
Master of Science en innovation	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 Printemps

Equipe enseignante

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Contenu

While focusing on policy perspectives regarding energy transition, the course addresses the following general themes:

- Energy and economic systems
- Static and dynamic efficiency
- Conventional energy sources
- Renewable energy
- Energy efficiency
- Electricity markets

Forme de l'évaluation

Final grade is based on a 2-hour written during the exam session at the end of the semester. Active participation in class debates and assignments may be rewarded by a bonus added to the final grade. More details are given in class.

With the exception of a simple calculator no documents or connected objects are allowed during the exams. Any violation of these rules will be considered as fraud, leading to the withdrawal of unauthorized items and possibly exam failure.

Modalités de rattrapage

2-hour written exam during the exam session, with no bonus.

For justified absences in the final exam (in June), the student can request that their bonus be transferred to the following exam session (in August). The request needs to be done at the latest, within 2 weeks after the date of the first exam. All bonuses will expire after the following exam session (August).

With the exception of a simple calculator no documents or connected objects are allowed during the exams. Any violation of these rules will be considered as fraud, leading to the withdrawal of unauthorized items and possibly exam failure.

Documentation

- Energy Economics, 2nd edition, Peter M. Schwarz, 2022.

In addition to the main textbook above, the course draws on selected readings that will be made available during the semester.

Pré-requis

Basic knowledge of microeconomics

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

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Forme de l'enseignement

Lecture: 2 hours per week
Office hours: upon request by e-mail

Objectifs d'apprentissage

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

- Formulate policy-relevant questions and criticisms
- Describe economic efficiency in static and dynamic states
- Communicate the results of an economic analysis
- Explain the role of energy in the economy
- Apply microeconomic models to energy markets and policy analysis
- Define different aspects of energy transition

Compétences transférables

- Develop scientific rigor and curiosity
- Solve quantitative problems
- Develop communication and debate skills
- Generate new ideas (creativity)