

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

Energy Economics (5ER2032)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en économie appliquée	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

The course consists of a diverse range of topics. The students will have the opportunity of working on an individual writing project on a topic of their choice but within a specific methodological framework to be detailed in the beginning of the semester. The course revolves around the following general themes:

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

Forme de l'évaluation

Final grade is based on a 45-minute written mid-term exam (30%), a written essay (40%) and regular class quizzes (30%). Further details will be given in class.

Retake: 2-hour written exam during the exam session (100%).

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

The fundamental part of the course is based on the following textbook:

- Energy Economics, Peter M. Schwarz, 2018.

While following closely the main textbook above, the course also draws on selected readings that will be made available during the semester.

Pré-requis

Basic knowledge of microeconomics

Forme de l'enseignement

Lecture: 2 hours per week

Office hours: upon request by e-mail

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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
- Generate new ideas (creativity)
- Solve quantitative problems
- Write a scientific essay