

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

Energy Economics (5ER1025)

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

Mehdi Farsi, Professor
Institute of Economic Research, Université de Neuchâtel
mehdi.farsi@unine.ch

Pieralberto Treccani, Assistant
Institute of Economic Research, Université de Neuchâtel
pieralberto.treccani@unine.ch

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

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 discussions 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.
 - Energy Economics - Theory and Applications, Peter Zweifel, Aaron Praktiknjo, Georg Erdmann, 2017.
- In addition to the textbooks above, the course draws on selected readings that will be made available during the semester.

Pré-requis

Basic Microeconomics (Introduction à l'économie 1)

Forme de l'enseignement

Lecture: 2 hours per week

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Office hours: upon request by e-mail

Objectifs d'apprentissage

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

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

Compétences transférables

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