Summary
The course introduces non economists to the economic analysis of climate change: economic activity and climate change, estimation of climate impacts, optimal mitigation and adaptation, national and international climate policy, instruments for climate policy.

Content
Economic activity as a source of greenhouse gases, climate scenarios
Impacts of climate change: valuation and uncertainty, net costs (aggregation, intergenerational discounting)
Adaptation to climate change
Mitigation: mitigation as a public good, efficiency and sufficiency, abatement measures, marginal abatement cost curves, innovation
Solar radiation management: economics and governance
Instruments for climate policy: voluntary approaches, regulation, economic instruments
Climate policy: Swiss climate policy, international climate policy, prisoner’s dilemma, cooperation, climate risk mitigation game

Keywords
climate change
economics

Learning Prerequisites
Recommended courses
Recommended: ENV-615 Environmental Economics for Engineers (before 2018) or Env-620 *Environmental Economics for Engineers (2018) from 2018

Learning Outcomes
By the end of the course, the student must be able to:
• to explain how economic activities contribute to climate change
• to develop the economic analysis of the main instruments of climate policy
• to explain the main dimensions of climate policy 'games'
Resources

Bibliography

Ressources en bibliothèque