

Program 2019/2020

AIMS AND SCOPE

Environmental issues such as pollution, climate change and the conservation of biodiversity are currently in the headlines of economic debate. Governments design public policies such as taxes or emission trading schemes to mitigate the negative impacts of air or water pollution. Firms launch green business strategies such as investments in cleaner technologies, product labelling or socially responsible investments to improve their competitiveness.

The Master 2 in Environmental and Natural Resources Economics (ERNA) is providing students the analytical skills to assess, analyse and recommend economic policies and strategies to tackle environmental issues and manage natural resources. Students will target jobs in natural resources management and sustainable development (large businesses, public institutions and local communities), within international institutions, or will pursue an academic career.

This program is mainly led by thematic research groups, including in Environmental and Natural Resource Economics, which are parts of the Toulouse School of Economics.

PROGRAM STRENGTHS

- The program combines recent developments in economic theory and quantitative techniques with applications in real-world problems in environmental and natural resource management such as water, air, energy, land, forestry, or fisheries.
- The teaching is mainly performed by highly qualified economists from Toulouse School of Economics. The environmental and natural resource economists are doing their research within a TSE dedicated research group, one of the major research centers in environmental and natural resource economics in Europe. The program is supported by INRA (French National Institute for Agricultural Research).
- Faculties have developed research projects with strong ties with public institutions (French Ministry of the Environment, French Water Agencies, The World Bank,...), as well as companies involved in environmental and natural resources issues (EDF, Areva, GDF SUEZ, Veolia,...) and investors through the Chair on "Sustainable Finance and Responsible Investments"

COURSES

1. Environmental policy and Energy Economics path

SEMESTER 3	SEMESTER 4
Compulsory: <ul style="list-style-type: none"> • Policies and Business Strategies for a green economy • Valuing the Environment • Sustainable Development Choice among 2: <ul style="list-style-type: none"> • Randomized Controlled Trials and Policy Evaluation • Topics in Applied Econometrics 	Four courses among: <ul style="list-style-type: none"> • Energy Economics and Climate Policy**** • Ecosystem Management and Policies • Sustainable Management and Valuation of Ecosystems • Micro-Finance, Land and Labor • Advanced Environmental Economics*** • Structural Models and Policy Evaluation • Industrial Organization of the Food Industry***** • Topics in Environmental Economics
Non-compulsory courses : Professional Development * Algebra Refresher ** Probability Refresher ** Dynamic optimization Refresher ** Datanomics : regulation of data spreading and data protection	

* Students followed the course " Professional Development" in M1 in 2018-2019 will be exempted.

** Upgrade course in Mathematics, open to students in M1 and M2 of TSE.

*** Option choice must be approved by the ETE and ERNA Directors

**** 5 students of the EMO Master are authorized to take the Energy Economics course

*****5 students of the ERNA Master are authorized to take the IO of the Food Industry course

Students must complete 8 courses of 30 hours and **write a Master thesis or do an internship** and write a report under the supervision of a TSE faculty.

2. Ecology and Economics path

SEMESTER 3	SEMESTER 4
One course among : Introduction to Economics for Biologists (1) Introduction to Ecology for Economists (2)***	Compulsory: Sustainable Management and Valuation of Ecosystems Ecosystem Management and Policies Cost Benefit Analysis: Foundations and Practice Topics in environmental Economics
Compulsory: Population demography and evolutionary ecology Biodiversity and Ecosystems Structure and Dynamics of Ecological Systems	
Professional Development * Introduction to non-market Valuation Algebra Refresher ** Probability Refresher ** Dynamic Optimization Refresher ** Datanomics : regulating to data spreading and data protection	Internship or Master Thesis End of Master Day: a full day of presentations by guests from the private and the public sector, researchers, and students

*Students who followed the course "Professional Development" in M1 in 2018-2019 will be exempted.

** Upgrade course in Mathematics, open to students in M1 and M2 of TSE.

*** This course will be given at the end of August

Students must complete 8 courses of 30 hours **and write a Master thesis or do an internship** and write a report under the supervision of a TSE faculty.

ADMISSION

Selection is based on academic excellence.

Applicants from the French system must have passed the TSE International track Master 1 (1st year Master's) in Economics or another French University master in Applied Mathematics or an equivalent degree (e.g., engineering school,...).

Regarding foreign students, the required degrees are either a BSc, M.A., or MSc, within a recognized curriculum regarded as consistent with the program and approved by the TSE Selection Committee.

Students are expected to have acquired a good level in standard microeconomics, macroeconomics, and quantitative methods. Some brushing up in economics and maths might be advisable in some cases. A working level of English is obviously required, as all the courses are delivered in this language.

APPLICATION

Applications are considered in November for Eiffel scholarship applicants and in January for other international students and in May for French Universities' graduates.

CONTACT

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