



Master's programs in Economics International track

2019 – 2020

Toulouse School of Economics offers **two-year Masters programs** in Economics that integrate different options in the first year that prepare to the different specializations offered in the second year. Within the international track in economics, a broad choice of application fields is offered (see below). All courses are taught in English and students benefit from specific courses and services to help them learn, grow and build skills in a challenging international job market.

1st year: Master in Economics

Objective

In the 1st year, Students attend a rigorous academic program in the different economics disciplines. 100% of courses of this program are taught in English. The common core courses allow them to build upon their basic knowledge and the elective courses allow students to build up their careers projects, taking into account the specializations in the second year of the master's programs.

Courses:

SEMESTER 1	SEMESTER 2
<p>Compulsory:</p> <ul style="list-style-type: none"> • Game Theory* • Theory of Incentives • Macroeconomics * • Intermediate Econometrics * • Applied Econometrics • R programming • Professional Development • French as a Foreign Language <p>2 electives:</p> <ul style="list-style-type: none"> • Environmental economics • Development economics • Evolution of economic behavior • Understanding Real World Organizations • Markov Chains and applications • Probability Modeling • Project Management • Experimental economics **** 	<p>Compulsory:</p> <ul style="list-style-type: none"> • Public economics * • Applied Econometrics * • Program Evaluation * <p>4 electives:</p> <ul style="list-style-type: none"> • Advanced Macroeconomics ** • Advanced Microeconomics ** • Industrial Organization ** • North-South Economic Relations ** • Environmental & Resource Economics ** • Time series ** • Panel Data ** • Corporate finance ** • Market finance ** • Empirical IO • Topics in food economics • Behavioral and Experimental economics **** • Dynamic Optimization • Martingales theory and applications *** • Data Bases
<p>Optional courses</p> <ul style="list-style-type: none"> • Introduction to SAS (for newcomers in the first year of master) • Math camp for M1 and M2 (End of August): Algebra/Probability/Static Optimization refresher 	<p>Compulsory International internship or dissertation</p>

* Fundamental Courses

** Highly recommended by M2 directors:

- Industrial Organization : M2 EMO

- Environmental & Resource Economics : M2 ERNA

- North-South Economics relations : M2 PP&D

- Corporate finance and Market Finance : M2 in Finance

- Panel data or time series: M2 EEE

- Advanced Micro and Advanced Macro : M2 ETE

*** Student must have followed the course "Markov chains"

**** Student chosen Experimental economics at Semester 1 couldn't choose Behavioral and Experimental economics at Semester 2 (other way round)

2nd year master programs

1. Master in Public Policy and Development (2019-2020 academic year curriculum)

SEMESTER 3	SEMESTER 4
<p>4 among 6 electives:</p> <ul style="list-style-type: none"> • Political Economy and Development • Economic Effects of Political institutions • Infrastructures and Development • Randomized Control Trials and Policy Evaluation • Governance, Industrial Organization and Development • Topics in Applied Econometrics 	<p>4 among 8 electives:</p> <ul style="list-style-type: none"> • Foreign Aid, Organization and Effectiveness • International Trade and Development • Structural Methods and Policy Evaluation • Micro-Finance, Land and Labor • North-South Economic relation**** • Economic Analysis of Infrastructure and Network Industries (30 students max.) • Historical perspective on development • Development Microeconomics*
<p>Non-Mandatory :</p> <ul style="list-style-type: none"> • Datanomics : regulation of data spreading and data protection • Math refresher courses***: Algebra Refresher, Probability Refresher, Dynamic Optimization refresher <p>Professional Development**</p>	<p>Internship or dissertation</p>

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Choice of this elective must be validated by the ETE Master Director as well as the PP&D Master Director

** 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.

**** Students who have already attended the "North-South Economic Relation" course in 2018-2019 cannot choose this elective

2. Master in Econometrics and Empirical Economics (2019-2020 academic year curriculum)

SEMESTER 3	SEMESTER 4
<p>Compulsory courses:</p> <ul style="list-style-type: none"> • Econometric Methods for Empirical Economics • Panel Data • Nonparametric Econometric Methods • Machine learning for economics • Time Series and Economic Forecasting • Database Management System • Programming in Python 	<p>Choose 2 electives:</p> <ul style="list-style-type: none"> • Empirical Industrial Organization • Financial econometrics • Structural Methods and Policy Evaluation <p>Equivalent of 8 credits among:</p> <ul style="list-style-type: none"> • Data Analytics (2) • Econometric Approach to Efficiency Analysis (2) • Experimental Economics (2) • Health Econometrics (2) • High-dimensional models • Empirical Industrial Organization (4) • Financial econometrics (4) • Structural methods and policy evaluation (4) • Empirical project (4)
<p>Non-Mandatory:</p> <ul style="list-style-type: none"> • Professional Development * • Algebra Refresher ** • Probability Refresher ** • Dynamic Refresher ** • Datanomics : regulation of data spreading and data protection 	<p>Internship or Master Thesis</p>

* 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.

3. Master in Economics of Markets and Organizations (2019-2020 academic year curriculum)

SEMESTER 3	SEMESTER 4
Compulsory: <ul style="list-style-type: none"> - Business Economics - Advanced Industrial Organization - Empirical analysis of firm behavior One courses among: <ul style="list-style-type: none"> - Business Economics - Advanced Industrial Organization - Empirical analysis of firm behavior 	Four courses among: <ul style="list-style-type: none"> - Incentives and Regulation - Digital Economics - Topics in Applied Industrial Organization - Industrial Organization of The Food Industry***** - Air Transport Economics (20 students max.) - Economic Analysis of Infrastructure and Network Industries (30 students max.) - Energy Economics and Climate Policy**** - Industrial Organization*
Non Mandatory : Professional Development ** Algebra Refresher *** Probability Refresher *** Dynamic Refresher *** Datanomics : regulation of data spreading and data protection	Internship or Master Thesis

* course will be allocated by the Director

** 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.

**** 5 student of the M2 EMO are authorized to take the Energy Economics and Climate Policy course (on the 1st come/1st served basis)

*****5 students of the M2 ERNA are authorized to take the IO of the food Industry course (on the 1st come/1st served basis)

4. Master in Environmental and Natural Resources Economics (2019-2020 academic year curriculum)

A- 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	

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*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 the IO of the Food Industry course

B- Ecology and Economics path

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

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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*

5. Master in Economic Theory and Econometrics (Doctoral path) (2019-2020 academic year curriculum)

SEMESTER 3	SEMESTER 4
<p>Compulsory:</p> <ul style="list-style-type: none"> • Microeconomics 1 • Macroeconomics 1 • Econometrics 1 	<p>Compulsory:</p> <ul style="list-style-type: none"> • Microeconomics 2 • Macroeconomics 2 • Econometrics 2
<p>Choose 1 elective:</p> <ul style="list-style-type: none"> • Optimization • Game Theory 	<p>2 among 12 :</p> <ul style="list-style-type: none"> • Asset pricing and financial market • Corporate finance and financial intermediation • Public economics of the environment • Development microeconomics • Public economics • Economic theory • Stochastic optimal control in economics • Topics in econometrics and empirical economics • Industrial Organization • Quantitative techniques in economics • Advanced Behavioral and Experimental Economics
	<p>Master thesis</p>

Acceptance criteria and enrolment

- Students with an undergraduate degree who majored in Economics or Economics and Mathematics at the Toulouse School of Economics TSE and able to justify a good English (TOEFL, IELTS or Cambridge English Advanced Certificate C1 level required) are eligible to enroll in the M1 Economics or Econometrics and Statistics programs international track (entirely taught in English)
- Or by application review:
 - Students with an undergraduate degree in an economic or mathematics field;
 - French or foreign students with a degree and credits considered equivalent, and able to justify a good English (TOEFL, IELTS or Cambridge English Advanced Certificate C1 level required) and Mathematics Level (GRE required for foreign students).

Application Process

Applications are considered in November for Eiffel scholarships applicants, in January for other foreign degree holders and in May for French degree holders : www.tse-fr.eu/admissions

Information

• **Administration:**

Building A – 1st floor

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Manufacture des Tabacs

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Tel: +33 (0)5 61 12 86 54

Website: www.tse-fr.eu

Email: scoltsem1@ut-capitole.fr or scoltsem2@ut-capitole.fr

Admission Office: TSE-studentsrecruitment@ut-capitole.fr

• **Programs:**

- Master 1 in Economics: Bertrand Gobillard – bertrand.gobillard@tse-fr.eu and Elodie Alet – elodie.alet@tse-fr.eu
- Master 2 Directors:
 - PP&D: Mohamed Saleh – mohamed.saleh@tse-fr.eu
 - ERNA: Henrik Andersson – henrik.andesson@tse-fr.eu
 - EEE: Catherine Cazals – catherine.cazals@tse-fr.eu
 - EMO: Estelle Malavolti – estelle.malavolti@tse-fr.eu
 - ETE : Takuro Yamashita – takuro.yamashita@tse-fr.eu