

Program 2022/2023



## AIMS AND SCOPE OF THE PROGRAM

Public policy and development are at the core of the public debate. Issues such as education and health and other public policies, democracy, foreign aid, governance, human development, infrastructure, and the historical origins and effects of political and economic institutions, are of concern, not only to academics, but also to the general public all over the world.

This two-year master's programme in Public Policy and Development (PPD) program at the Toulouse School of Economics combines economic theory, state-of-the-art applied microeconomic techniques, and an interdisciplinary approach to issues of development and public policy. While the program is primarily focused on economics, it is based on the belief that insights from related fields such as political science, history, and anthropology, are essential to study the problems of today's world in depth.

The program provides students with fundamental skills in applied microeconomics, with a focus on Randomized Control Trials (RCTs), causal inference with observational data, and structural models in public policy evaluation. The general philosophy of the program is to train students, via a wide range of elective courses, on how to analyze real-world problems using economic theory and rigorous quantitative thinking. A special focus is given to topics of infrastructure, governance and industrial organization, economic history, political and economic institutions, international organizations, global value chains, trade, and human development. Students learn how to analyze real-world problems using perspectives from economic history, political science, and anthropology. Students are also trained on using statistical software packages, and on collecting and analyzing data through various empirical projects.

**Note:** students can apply to either the full program (i.e. two years) or directly to the 2nd year (refer to the Admission section for further information).

## STRENGTHS OF THE PROGRAM

- Courses are taught in English by TSE faculty members with well-established international reputation in the areas of development economics, economic history, labor economics, industrial organization, and political economy.
- The program benefits from its close ties with the Institute for Advanced Study in Toulouse (IAST), which enables the program to focus on the intersection of public policy and development with political science, history, and anthropology.
- A number of PPD instructors have consulting experience with international and national organizations in the fields of development and public policy in developed countries, including the World Bank, the OECD, and the French AFD (Agence française de développement). This ensures a focus on issues that are relevant to policymakers and the professional community.

- PPD instructors have acquired an international reputation in various cutting-edge research topics, such as the political economy of international organizations, economics of regulation, randomized control trials, and economics of civil conflicts.
- Within TSE, teaching in the PPD program remains in close connection with recent developments in applied microeconometrics and economic theory.

## COURSES

### 1<sup>st</sup> Year - Master in Applied Economics

SEMESTER 1	SEMESTER 2
<p><b>Compulsory:</b></p> <ul style="list-style-type: none"> <li>• Macroeconomics *</li> <li>• Game Theory*</li> <li>• Theory of Incentives*</li> <li>• Applied Econometrics *</li> <li>• Intermediate Econometrics *</li> <li>• R Programming *</li> <li>• Professional Development *</li> <li>• French as a Foreign Language *</li> </ul> <p><b>2 electives: Choose 2 among 11</b></p> <ul style="list-style-type: none"> <li>• Environmental Economics</li> <li>• Economic History</li> <li>• Markov Chains and Applications</li> <li>• Probability Modeling</li> <li>• Evolution of Economic Behaviour</li> <li>• Experimental Economics</li> <li>• Understanding Real World Organizations</li> <li>• Political Economy</li> <li>• Project Management</li> <li>• Market Power &amp; Regulation</li> <li>• ENGAGE</li> </ul>	<p><b>Compulsory:</b></p> <ul style="list-style-type: none"> <li>• Public Economics *</li> <li>• Program Evaluation *</li> <li>• Applied Econometrics *</li> </ul> <p><b>4 electives: Choose 4 among 16</b></p> <ul style="list-style-type: none"> <li>• Industrial Organization **</li> <li>• Environmental &amp; Resource Economics **</li> <li>• Economics of Human Development **</li> <li>• Corporate Finance **</li> <li>• Market Finance **</li> <li>• Dynamic Optimization</li> <li>• Martingales Theory and Applications</li> <li>• Panel Data **</li> <li>• Time Series **</li> <li>• Data Bases</li> <li>• Empirical Industrial Organization</li> <li>• Topics in Food Economics</li> <li>• Advanced Macroeconomics</li> <li>• Advanced Microeconomics</li> <li>• Behavioral and Experimental Economics</li> <li>• ENGAGE</li> </ul>
<p><b>Optional courses:</b></p> <ul style="list-style-type: none"> <li>• Introduction to SAS (for newcomers in the first year of master)</li> <li>• Math camp for M1 and M2 (End of August): Algebra / Probability / Static Optimization refresher***</li> </ul>	<p style="text-align: center;"><b>Compulsory International internship or Master 1 Thesis*</b></p>

\*UE1 / UE2 / UE5 : A minimum score of 10 out of 20 is required

\*\*Masters 2 Directors highly recommend to attend these options :

- Industrial Organization: M2 EMO
- Environmental & Resource Economics: M2 ERNA
- Economic of Human Development: M2 PPD
- Corporate finance et Market Finance: M2 Finance
- Panel Data or Time series: M2 EEE

\*\*\* Math refresher courses opened to M1 and M2 students

Each student must choose 4 courses (30 hours each) in each semester. Students must complete 8 courses of 30 hours, conduct an empirical project, and do either an internship for 4-6 months (followed by writing an internship report under the supervision of a TSE faculty and the internship institution) or a Master's thesis.

### 2<sup>nd</sup> Year - Master in Public Policy and Development

SEMESTER 3	SEMESTER 4
<p><b>Mandatory:</b></p> <ul style="list-style-type: none"> <li>• Causal Inference with Observational Data</li> <li>• Empirical Project from October to March (tutored projects)</li> </ul> <p><b>1 among 3:</b></p> <ul style="list-style-type: none"> <li>• Datanomics : regulation of data spreading and data protection</li> <li>• Project management*</li> <li>• Ethics of social studies</li> </ul> <p><b>3 among 6 electives:</b></p> <ul style="list-style-type: none"> <li>• Infrastructure and Development</li> <li>• Governance, Industrial Organization and Development</li> <li>• Economic Effects and Political Sociology of Institutions</li> <li>• Historical Perspectives on Development</li> <li>• Machine learning for economics</li> <li>• Agriculture and Global Value Chains</li> </ul>	<p><b>Mandatory:</b></p> <ul style="list-style-type: none"> <li>• Randomized Control Trials and Policy Evaluation</li> </ul> <p><b>3 among 7 electives:</b></p> <ul style="list-style-type: none"> <li>• The Long-Run History of Trade</li> <li>• Structural Models and Policy Evaluation</li> <li>• Economics of Human Development</li> <li>• Economic Analysis of Infrastructure and Network Industries.</li> <li>• Development: Theory, Public Policy, and Historical Perspectives***</li> <li>• Institutions and Long-Run Development</li> <li>• Political Economy of International Organizations</li> </ul>
<p><b>Optional:</b></p> <ul style="list-style-type: none"> <li>• Professional Development*</li> <li>• Algebra Refresher **</li> <li>• Probability Refresher **</li> <li>• Dynamic Optimization Refresher **</li> </ul>	<p><b>Internship or master thesis</b></p>

\* Students who followed the course " in M1 in 2021-2022 will be exempted

\*\* Upgrade courses in Mathematics, open to students in M1 and M2 of TSE

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

## ADMISSIONS

Admission is based on academic excellence.

### First year admission:

- Aimed at English speakers
- Students should hold a BSc in Economics, Applied Mathematics within a recognized curriculum considered as consistent with the program and approved by the TSE selection committee.

### Second year admission:

- 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's in applied mathematics or an equivalent degree (e.g., engineering school).
- Holders of a BSc, M.A., or MSc degree, within a recognized curriculum regarded as consistent with the program and approved by the TSE Selection Committee.
- Some brushing-up in Economics or Maths might be advisable in some cases. Working knowledge of English is obviously required.

## APPLICATION

For the 1<sup>st</sup> year, students have to apply to the Master in Applied Economics. For the 2<sup>nd</sup> year, students have to apply to the Master in Public Policy and Development.

Applications are considered in November for Eiffel scholarship applicants and in January for other international students and French degree holders applying to the 1<sup>st</sup> year. Applications to the second year take place in May for French degree holders.

For more details about requirement documents and application process, please see the Admission section.

## CONTACT

Toulouse School of Economics

1 Esplanade de l'Université

31080 Toulouse Cedex 06

Phone : + (33) (0)5 67 73 27 87

E-mail : [tse-admissions@ut-capitole.fr](mailto:tse-admissions@ut-capitole.fr)

Site : [www.tse-fr.eu](http://www.tse-fr.eu)