

Program 2021/2022

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

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

*\*\*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*

*\*\*\*\* To attend the Martingales theory and applications course you need to have attended the Markov Chains course first*

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. Master in Public Policy and Development – 2<sup>nd</sup> Year**

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> <li>•</li> </ul> <p><b>3 among 5 electives:</b></p> <ul style="list-style-type: none"> <li>• Infrastructure and Development</li> <li>• Governance, Industrial Organization and Development</li> <li>• Economic Effects of Political Institutions</li> <li>• Historical Perspectives on Development</li> <li>• Political Economy of International Organizations</li> <li>•</li> </ul> <p><b>Optional:</b></p> <ul style="list-style-type: none"> <li>• Datanomics: regulation of data spreading and data protection</li> <li>• Math refresher courses***: Algebra Refresher, Probability Refresher, Dynamic Optimization refresher</li> <li>• Professional Development**</li> </ul>	<p><b>Mandatory:</b></p> <ul style="list-style-type: none"> <li>• Randomized Control Trials and Policy Evaluation</li> <li>•</li> </ul> <p><b>3 among 7 electives:</b></p> <ul style="list-style-type: none"> <li>• Agriculture and Global Value Chains</li> <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 (30 students max.)</li> <li>• Development: Theory, Public Policy, and Historical Perspectives*</li> <li>• Institutions and Long-Run Development</li> </ul>
	<i>Internship or dissertation</i>

## 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

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