

Program 2024/2025



## AIMS AND SCOPE

The "Doctoral track" allows students to acquire a thorough and advanced general training in economic theory (micro, macro and econometrics) before choosing a specific area of research.

This program is specially designed for students interested in micro and macro theory, econometrics, industrial organization and other theoretical and applied fields. It offers a large range of courses that allow students to start a PhD in the best possible conditions.

## PROGRAM STRENGTHS

Students are supported by the TSE thematic research groups in:

- Behavior, Institutions, and Development
- Econometrics and empirical economics
- Environmental Economics and Natural Resources
- Finance
- Industrial Organization
- Macroeconomics
- Mathematics of decision making and Statistics
- Public economics
- Theoretical economics

This high-level program provides a broad vision of economics and is a great springboard into original research.

## CURRICULUM

Students must complete 6 graduate courses of 36 hours and 3 graduate courses of 30h and **write a Master thesis in application to the PhD course.**

Master thesis, supervised by a faculty member, should demonstrate the aptitude and the skills of the students to do autonomous research in application to the PhD course.

SEMESTER 3	SEMESTER 4
<b>Compulsory courses:</b> <ul style="list-style-type: none"> <li>• Microeconomics 1</li> <li>• Macroeconomics 1</li> <li>• Econometrics 1</li> </ul>	<b>Compulsory courses:</b> <ul style="list-style-type: none"> <li>• Microeconomics 2</li> <li>• Macroeconomics 2</li> <li>• Econometrics 2</li> </ul>
<b>Choose 1 elective:</b> <ul style="list-style-type: none"> <li>• Optimization</li> <li>• Game Theory</li> </ul>	<b>Electives 2 among 12</b> <ul style="list-style-type: none"> <li>• Capital Markets***</li> <li>• Corporate finance: Theory and Empirics***</li> <li>• Advanced Environmental Economics</li> <li>• Development Theory, Public Policy and Historical Perspectives</li> <li>• Public Economics</li> <li>• Economic theory</li> <li>• Stochastic Optimal Control in Economics</li> <li>• Topics in Econometrics and Empirical Economics</li> <li>• Industrial Organization</li> <li>• Advances in Macroeconomics</li> <li>• Behavioral Economics</li> <li>• Stochastic Optimization Algorithms*</li> </ul>
<b>Elective courses:</b> <ul style="list-style-type: none"> <li>• Algebra Refresher**</li> <li>• Probability Refresher**</li> <li>• Dynamic Optimization Refresher**</li> </ul>	<b>Internship or Master Thesis</b>

\* This course choice will have to be validated by the Master program Director first

\*\* Maths refresher courses opened to 1<sup>st</sup> and 2<sup>nd</sup> year Master students

\*\*\*A student can choose only one of these two courses

## ADMISSION

Admission is based on academic excellence criteria. An undergraduate degree of at least 4 years of college or a master's degree is required, within a recognized curriculum considered consistent with the programme and approved by the TSE Committee. A high level in Mathematics, Microeconomics, Macroeconomics and Econometrics is necessary. Working knowledge of English is obviously required.

## APPLICATION PROCESS

Online applications are open for a month in November for Eiffel scholarship candidates and in January-February for all international students. French degree holders applications for the first year of Master's also take place in January-February; in May for the second year. More details are available online at <https://www.tse-fr.eu/admissions>

## CONTACT

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