

# Master Economie parcours Economie, Data et Transition (Masters in Economics, Data & Transition)

The Master's in Economics, Data & Transition offers top-notch training in Economics at the IEG, a school known for its outstanding employment record in high-profile jobs.

## Présentation

In the contemporary world, humanity stands at a pivotal crossroads, facing an array of complex and interlinked challenges that are reshaping our planet and societies. In such a context, data analysis and economic theory are indispensable for preparing the transition.

First, in-depth studies that leverage data provide us with a comprehensive understanding of the evolving climate patterns, their regional disparities, and the severity of the challenges posed. Moreover, they help quantify the costs of inaction, the economic benefits of mitigation, and the potential for innovation in renewable energy and sustainable practices.

Moreover, societal changes, from shifting demographics to technological disruptions, are fundamentally altering the way we live and work. Urbanization, automation, and globalization are transforming industries, job markets, and social structures. These changes present both opportunities and challenges, such as income inequality, job displacement, and evolving healthcare needs. Economic theory plays a vital role in understanding and preparing for these shifts. By analyzing data on employment trends, income distribution, and the impact of emerging technologies, we can design policies and strategies to harness the benefits of societal changes while mitigating adverse effects.

The urgent need to prepare for the near future cannot be overstated. It requires a proactive approach that combines scientific knowledge, data-driven insights, and economic foresight. This program proposes in-depth studies grounded in data and economic theory to offer a roadmap for transitioning to a more sustainable and resilient future.

## Spécificités

### Program Highlights

- Taught by an international team of leading economics professors
- Coursework 100% in English
- Preparation for employment in public / private sectors
- Possibility of admission to M2 Economic Analysis (CY Tech and ESSEC), then PhD joint degree with ESSEC

## Durée de la formation

- Libellé inconnu

## Public

### Niveau(x) de recrutement

- Libellé inconnu

## Langues d'enseignement

- Libellé inconnu

## Modalités

- Présentiel

- Study in Ile-de-France, a leading European business capital

## Admission

### Pré-requis

#### Formation(s) requise(s)

Bac+3 or a U.S. / U.K. equivalent (e.g. Bachelors)

Admission is not available to candidates with a professional/certificate track undergraduate degree

### Candidature

#### Modalités de candidature

Follow these application instructions depending on your situation:

You have spent more than 2 years outside of the university sphere in a professional capacity. ([apply here](#))

You are applying as a non-EU national and have not yet studied in the EU or France. ([apply here](#))

Neither of the above apply. ([apply here](#))

All applicants to Include the following in their application dossiers (PDF format required):

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CV

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Cover letter

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Copies of all transcripts, university and secondary school (high school)

English-speaking applicants may contact us here for any further questions or support during the application process:

[guillaume.chapelle@cyu.fr](mailto:guillaume.chapelle@cyu.fr) / [rosalind.freeman-gomez@cyu.fr](mailto:rosalind.freeman-gomez@cyu.fr)

## Et après ?

### Niveau de sortie

#### Année post-bac de sortie

- Libellé inconnu

### Niveau de sortie

- Libellé inconnu

# Programme

The Master's in Economics and Data, and Sustainability is a two-year program that offers top notch training in Economics and Data Analysis. It will equip graduates with a unique skill set that is highly relevant to a rapidly evolving job market focused on sustainability, data-driven decision-making, and the global transition towards a more environmentally and socially responsible future.

The program offers core economics courses to provide the fundamental analytical tools to understand and model the contemporaneous challenges while elaborating potential policy responses. This is complemented by in-depth training in programming and data analysis using the most recent technologies and real-world data. The program also offers the opportunity to specialize in the topics of sustainable development and transition offering specialized courses in Environment, Demography and Family Economics, Urban and Transport Economics, and much more. Finally, the program helps to prepare students in their professional life, offering the possibility to work on Capstone Projects and participate in internships in a network of research labs, partner firms and public administrations.

## First Year (M1)

A capstone + an internship

### First Semester

- Economics
  - Microeconomics
  - Mathematics for economists
- Data
  - Introduction to econometrics
  - Programming for data management and analysis
- Society and Environment
  - Economics of inequalities
  - Climate and institutional changes
  - Family Economics

### Second Semester

- Economics
  - Macroeconomics
  - Finance
- Data
  - Public Policy Evaluation
  - Time Series and forecasting
- Society and Environment
  - European Integration and International Economics
  - Resource and environmental economics
  - Development Economics

## Second Year (M2)

[After the Master 1, possibility of admission to the M2 Economic Analysis, to obtained a joined CY Tech and ESSEC diploma.](#)

A coaching + an internship

### First Semester

- Economics
  - Macroeconomic policies
  - Society and the environment
- Data

- Advanced Time series and forecasting
- Introduction to Big Data and Machine learning
- Society and Environment
  - Political Economy
  - Health Economics
  - Economics of education

### **Second Semester**

- Economics
  - Labour Economics and contemporaneous challenges
  - Micro econometrics
- Data
  - Application of econometrics
  - Advanced topics of Big Data
- Society and Environment
  - Public economics
  - Urban and transport economics
  - Welfare economics