



MA-ECOE | 2024-2025

# Master in Economics : Econometrics

The 2024-2025 programme is subject to change. It is provided for information purposes only.

## Programme mnemonic

MA-ECOE

- Focus *Research in Economics* : M-ECOER
- Focus *Research in Economics and statistics* : M-ECOES

## Studies level

Master 120 credits

## Learning language

english

## Schedule

office hours

## Studies category / subcategory

Economics and business management / Economics

## Campus

Solbosch

- An **international faculty** with a staff of high-level researchers and accomplished practitioners, who work together to ensure that the training they provide is both relevant for business and policy practice and corresponds to the state of art.
- A **tradition of rigorous** and demanding curricula based on solid multidisciplinary and analytical training, promoting critical thinking and problem-solving skills.
- A **diversity of teaching methods** that are constantly revised to ensure teaching effectiveness.
- A **diverse and international student** body (up to 80% in some Master programmes).
- A **comprehensive educational** offering covering economics and business from the bachelor to in-company training.
- **Accreditation from EQUIS** (European Foundation for Management Development) and AMBA (Association of Masters of Business Administration). AACSB (Association to Advance Collegiate Schools of Business) accreditation is underway.

## Programme objectives

The research-oriented Masters in Economics and in Economics and Statistics provide students with the theoretical and statistical tools required to pursue advanced analysis and research in economics.

This programme is offered in two versions:

- The **research-oriented Master in Economics** provides general training in all areas of economics
- The **research-oriented Master in Economics and Statistics** offers students the possibility to specialise in topics at the intersection between economics and statistics.

## Programme's added value

The Solvay Brussels School assets

- A location at the **heart of Europe**, within a comprehensive research university: the Université Libre de Bruxelles.

## Teaching methods

Teaching methods are based on a demanding system that combines theoretical and quantitative training content. The first-year of the programme is preceded by a 'Maths Camp' whose purpose is to bring all future students of the Master to the same high level of mathematical skills required for advanced coursework in economics. Students can then follow advanced courses in economics (macroeconomics, microeconomics, and econometrics), supplemented by a rich array of field courses covering virtually all the main branches of economics.

## Succeed in your studies

### Choose

The information and guidance counsellors at the InfOR-études [<https://www.ulb.be/en/studies-info-desk-1>] service will help you choose your studies throughout the year.

### Succeed



Take part in preparatory courses [<https://www.ulb.be/en/studies-info-desk-1>] or get help to succeed [<https://www.ulb.be/en/studies-info-desk-1>], before or during your studies.

### Get help

Apply for financial aid, look for accommodation or a student job, get support [<https://www.ulb.be/fr/aides-services-et-accompagnement/aid-services-and-support-1>] for your specific needs.

## Job opportunities

Most graduates of the research-oriented Master programmes start a PhD. in economics, either at ECARES (European Centre for Advanced Research in Economics and Statistics) or abroad. The highly stimulating and demanding doctoral programme at ECARES leads to a variety of job opportunities, including:

- Researcher or assistant professor in a research institute or a university (London School of Economics, Boston University, Oxford University, Central European University, etc.)
- Economist in international institutions (OECD, European Commission, World Bank, European Central Bank, etc.)
- Specialised consultant (Compass-Lexecon, Charles River Associates, OXERA, etc.)
- Finance professional

Notable alumni include:

- Marianne Bertrand, Professor of Economics, University of Chicago, Booth School of Business
- Natalie Chen, Professor of Economics, University of Warwick
- Elisabetta Cornago, Environmental Economist, OECD - PhD candidate in Economics at ECARES, ULB
- Pénélope Papandropoulos, Coordinator State Aid in Chief Economist Team of DG Competition – European Commission
- Christophe Soil, CEO, Brussels Planning Bureau

### Contacts

✉ [Anne-Marie.Notarianni@ulb.be](mailto:Anne-Marie.Notarianni@ulb.be)

☎ +32 2 650 39 10

☁ <http://www.solvay.edu/bachelors-masters>

### Jury President

Mathieu PARENTI

### Jury Secretary

Gani ALDASHEV



# Master in Economics : Econometrics

## Focus Research in Economics

Both variants of the Master consist of a common core of required courses, and a series of elective courses; they also both require the writing of a master's thesis.

The research-oriented Master in Economics offers two specialisation tracks:

- > Advanced Methods
- > Topics in Economics

The research-oriented Master in Economics and Statistics offers two specialisation tracks:

- > Economics
- > Statistics

## Bloc 1 | M-ECOER | MA-ECOE

### Cours Obligatoires

ECON-S427	<b>Graduate macroeconomics I</b>   Fabio Blasutto (Coordinator) ⌚ 10 credits [lecture: 24h, tutorial classes: 24h] 📅 first term 💬 English
ECON-S428	<b>Graduate econometrics I</b>   Germain VAN BEVER (Coordinator) ⌚ 10 credits [lecture: 24h, tutorial classes: 24h] 📅 first term 💬 English
ECON-S429	<b>Graduate econometrics II</b>   Paula Eugenia GOBBI (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 💬 English
ECON-S430	<b>Graduate macroeconomics II</b>   Robert KOLLMANN (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 💬 English
ECON-S431	<b>Graduate microeconomics II</b>   Luca Paolo Merlino (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 💬 English
ECON-S510	<b>Graduate microeconomics I</b>   Georg KIRCHSTEIGER (Coordinator) ⌚ 10 credits [lecture: 24h, tutorial classes: 24h] 📅 first term 💬 English
ECON-S517	<b>Research topics</b>   Philip VERWIMP (Coordinator) and Gani ALDASHEV ⌚ 5 credits [lecture: 24h] 📅 second term 💬 English
MATH-S400	<b>Mathematics and economic modelling</b>   Thomas DEMUYNCK (Coordinator), Bram DE ROCK and Luca Paolo Merlino ⌚ 5 credits [lecture: 36h, tutorial classes: 24h] 📅 first term 💬 English
MATH-S401	<b>Dynamic optimization</b>   Thomas DEMUYNCK (Coordinator), Bram DE ROCK and Luca Paolo Merlino ⌚ 5 credits [lecture: 36h, tutorial classes: 24h] 📅 second term 💬 English

# Master in Economics : Econometrics

## Focus Research in Economics

### Bloc 2 | M-ECOER | MA-ECOE

## Cours Obligatoires

ECON-S504 **Research methods and research communication** | Philip VERWIMP (Coordinator)

⌚ 5 credits [lecture: 36h] 📅 first term 🗨 English

MEMO-S522 **Research seminar and master Thesis**

⌚ 25 credits 📅 first and second terms 🗨 English

## Cours Optionnels

Choisir parmi les 2 filières proposées (15 crédits dans chaque filière)

*A total of 30 credits chosen from the following*

### Advanced methods

*A total of 15 credits chosen from the following*

ECON-S460 **Advanced topics in microeconomics** | Micael CASTANHEIRA DE MOURA (Coordinator)

(optional) ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English

ECON-S461 **Advanced topics in macroeconomics**

(optional) ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English

ECON-S513 **Behavioral economics** | Georg KIRCHSTEIGER (Coordinator)

(optional) ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English

ECON-S519 **Graduate microeconomics III** | Georg KIRCHSTEIGER (Coordinator)

(optional) ⌚ 5 credits [lecture: 24h] 📅 first term 🗨 English

ECON-S520 **Graduate macroeconomics III**

(optional) ⌚ 5 credits [lecture: 36h] 📅 first term 🗨 English

ECON-S521 **Graduate econometrics III** | David PREINERSTORFER (Coordinator)

(optional) ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English

Ce cours ne sera pas donné en 2022-2023.

*One course chosen from the following*

HULB-0000 **Cours externe à l'Université**

(optional) ⌚ 5 credits 📅 academic year

HULB-0000 **Cours externe à l'Université**

(optional) ⌚ 10 credits 📅 academic year

STAT-F404 **Graduate statistics** | Thomas VERDEBOUT (Coordinator) and Davy PAINDAVEINE

(optional) ⌚ 5 credits [lecture: 24h] 📅 first term 🗨 English

STAT-F405  
(optional)

**Time series analysis** | Yves-Caoimhin SWAN (Coordinator)

⌚ 5 credits [lecture: 24h, tutorial classes: 12h] 📅 first term 🗣️ English

STAT-F408  
(optional)

**Computational statistics** | Maarten JANSEN (Coordinator)

⌚ 5 credits [lecture: 24h, tutorial classes: 12h, project: 100h] 📅 second term 🗣️ English

TEMP-0000  
(optional)

**Cours extérieurs au programme**

⌚ 5 credits 📅 academic year 🗣️ French

## Topics in economics

*A total of 15 credits chosen from the following*

ECON-S320  
(optional)

**Advanced topics in international economics** | Mathieu PARENTI (Coordinator)

⌚ 5 credits [lecture: 24h] 📅 second term 🗣️ English

ECON-S432  
(optional)

**Advanced international trade** | Paola CONCONI (Coordinator) and Mathieu PARENTI

⌚ 5 credits [lecture: 24h] 📅 second term 🗣️ English

ECON-S451  
(optional)

**Advanced industrial organization** | Mattia Nardotto (Coordinator)

⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗣️ English

ECON-S453  
(optional)

**Impact analysis** | Philip VERWIMP (Coordinator)

⌚ 5 credits [lecture: 12h, tutorial classes: 12h] 📅 first term 🗣️ English

ECON-S529  
(optional)

**Development economics** | Philip VERWIMP (Coordinator)

⌚ 5 credits [lecture: 24h] 📅 second term 🗣️ English

*One course chosen from the following*

HULB-0000  
(optional)

**Cours externe à l'Université**

⌚ 5 credits 📅 academic year

HULB-0000  
(optional)

**Cours externe à l'Université**

⌚ 10 credits 📅 academic year

# Master in Economics : Econometrics

## Focus Research in Economics and statistics

Both variants of the Master consist of a common core of required courses, and a series of elective courses; they also both require the writing of a master's thesis.

The research-oriented Master in Economics offers two specialisation tracks:

- > Advanced Methods
- > Topics in Economics

The research-oriented Master in Economics and Statistics offers two specialisation tracks:

- > Economics
- > Statistics

## Bloc 1 | M-ECOES | MA-ECOE

### Cours obligatoires

ECON-S427	<b>Graduate macroeconomics I</b>   Fabio Blasutto (Coordinator) ⌚ 10 credits [lecture: 24h, tutorial classes: 24h] 📅 first term 💬 English
ECON-S428	<b>Graduate econometrics I</b>   Germain VAN BEVER (Coordinator) ⌚ 10 credits [lecture: 24h, tutorial classes: 24h] 📅 first term 💬 English
ECON-S429	<b>Graduate econometrics II</b>   Paula Eugenia GOBBI (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 💬 English
ECON-S430	<b>Graduate macroeconomics II</b>   Robert KOLLMANN (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 💬 English
ECON-S431	<b>Graduate microeconomics II</b>   Luca Paolo Merlino (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 💬 English
ECON-S510	<b>Graduate microeconomics I</b>   Georg KIRCHSTEIGER (Coordinator) ⌚ 10 credits [lecture: 24h, tutorial classes: 24h] 📅 first term 💬 English
STAT-F404	<b>Graduate statistics</b>   Thomas VERDEBOUT (Coordinator) and Davy PAINDAVEINE ⌚ 5 credits [lecture: 24h] 📅 first term 💬 English
STAT-F405	<b>Time series analysis</b>   Yves-Caoimhin SWAN (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 12h] 📅 first term 💬 English
STAT-F407	<b>Stochastic models</b>   Maarten JANSEN (Coordinator) and Jennifer ALONSO GARCIA ⌚ 5 credits [lecture: 36h, tutorial classes: 12h] 📅 first term 💬 English

# Master in Economics : Econometrics

## Focus Research in Economics and statistics

### Bloc 2 | M-ECOES | MA-ECOE

## Cours obligatoires

ECON-S504 **Research methods and research communication** | Philip VERWIMP (Coordinator)  
⌚ 5 credits [lecture: 36h] 📅 first term 🗨 English

MEMO-S522 **Research seminar and master Thesis**  
⌚ 25 credits 📅 first and second terms 🗨 English

## Cours optionnels

Parmi les 2 filières proposées,

*A total of 25 credits chosen from the following*

### Economics

*2 to 4 courses chosen from the following*

ECON-S320 **Advanced topics in international economics** | Mathieu PARENTI (Coordinator)  
(optional) ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English

ECON-S432 **Advanced international trade** | Paola CONCONI (Coordinator) and Mathieu PARENTI  
(optional) ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English

ECON-S451 **Advanced industrial organization** | Mattia Nardotto (Coordinator)  
(optional) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗨 English

ECON-S453 **Impact analysis** | Philip VERWIMP (Coordinator)  
(optional) ⌚ 5 credits [lecture: 12h, tutorial classes: 12h] 📅 first term 🗨 English

ECON-S460 **Advanced topics in microeconomics** | Micael CASTANHEIRA DE MOURA (Coordinator)  
(optional) ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English

ECON-S461 **Advanced topics in macroeconomics**  
(optional) ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English

ECON-S513 **Behavioral economics** | Georg KIRCHSTEIGER (Coordinator)  
(optional) ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English

ECON-S519 **Graduate microeconomics III** | Georg KIRCHSTEIGER (Coordinator)  
(optional) ⌚ 5 credits [lecture: 24h] 📅 first term 🗨 English

ECON-S520 **Graduate macroeconomics III**  
(optional) ⌚ 5 credits [lecture: 36h] 📅 first term 🗨 English

ECON-S521 **Graduate econometrics III** | David PREINERSTORFER (Coordinator)  
(optional) ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English  
Ce cours ne sera pas donné en 2022-2023.

## Statistics

2 to 4 courses chosen from the following

HULB-0000 (optional)	<b>Cours externe à l'Université</b> ⌚ 5 credits 📅 academic year
INFO-F422 (optional)	<b>Statistical foundations of machine learning</b>   Gianluca BONTEMPI (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 12h, project: 60h] 📅 second term 🗣 English
STAT-F408 (optional)	<b>Computational statistics</b>   Maarten JANSEN (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 12h, project: 100h] 📅 second term 🗣 English
STAT-F418 (optional)	<b>Topics in nonparametric smoothing</b>   Maarten JANSEN (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 12h] 📅 first term 🗣 English Ce cours n'est pas donné en 2023-24 ,2025-26 etc.
STAT-F420 (optional)	<b>Topics in mathematical statistics</b>   Thomas VERDEBOUT (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 12h] 📅 first term 🗣 English
STAT-F421 (optional)	<b>Topics in probability theory</b>   Yves-Caoimhin SWAN (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 12h] 📅 second term 🗣 English Ce cours n'est pas donné en 2024-2025, 2026-2027 etc.
STAT-F507 (optional)	<b>Sequential analysis</b> ⌚ 5 credits [lecture: 24h] 📅 second term 🗣 English
TEMP-0000 (optional)	<b>Cours extérieurs au programme</b> ⌚ 5 credits 📅 academic year 🗣 French