

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-ECO

Cours Obligatoires

- ECON-S427 **Graduate macroeconomics I** | Ansgar Rannenberg (Coordinator)
 10 credits [lecture: 24h, tutorial classes: 24h]  first term  English
- ECON-S428 **Graduate econometrics I** | Germain VAN BEVER (Coordinator)
 10 credits [lecture: 24h, tutorial classes: 24h]  first term  English
- ECON-S429 **Graduate econometrics II** | Mattia Nardotto (Coordinator) and Paula Eugenia GOBBI
 5 credits [lecture: 24h, tutorial classes: 24h]  second term  English
- ECON-S430 **Graduate macroeconomics II** | Robert KOLLMANN (Coordinator)
 5 credits [lecture: 24h, tutorial classes: 24h]  second term  English
- ECON-S431 **Graduate microeconomics II** | Patrick LEGROS (Coordinator) and Zsolt UDVARI
 5 credits [lecture: 24h, tutorial classes: 24h]  second term  English
- ECON-S510 **Graduate microeconomics I** | Georg KIRCHSTEIGER (Coordinator)
 10 credits [lecture: 24h, tutorial classes: 24h]  first term  English
- ECON-S517 **Research topics** | Philip VERWIMP (Coordinator), Gani ALDASHEV and Mathieu PARENTI
 5 credits [lecture: 24h]  second term  English
- MATH-S400 **Mathematics and economic modelling** | Thomas DEMUYNCK (Coordinator), Bram DE ROCK and Luca Paolo Merlino
 5 credits [lecture: 36h, tutorial classes: 24h]  first term  English
- MATH-S401 **Dynamic optimization** | 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-ECOIE

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** | Heiko HESSE (Coordinator)

(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), Øyvind AAS and Patrick LEGROS

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

ECON-S520 **Graduate macroeconomics III** | Filipp Ushchev (Coordinator) and Mathieu PARENTI

(optional) 🕒 5 credits [lecture: 36h] 📅 second term 🗨️ English

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

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

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: 36h] 📅 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] 📅 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** | Patrick LEGROS (Coordinator) and Axel Gautier
⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗨 English

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

ECON-S529 (optional) **Development economics** | Philip VERWIMP (Coordinator) and Yasmine BEKKOUCHE
⌚ 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-ECO

Cours obligatoires

ECON-S427	Graduate macroeconomics I Ansgar Rannenberg (Coordinator) ⌚ 10 credits [lecture: 24h, tutorial classes: 24h] 📅 first term 🗨 English
ECON-S428	Graduate econometrics I Germain VAN BEVER (Coordinator) ⌚ 10 credits [lecture: 24h, tutorial classes: 24h] 📅 first term 🗨 English
ECON-S429	Graduate econometrics II Mattia Nardotto (Coordinator) and Paula Eugenia GOBBI ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗨 English
ECON-S430	Graduate macroeconomics II Robert KOLLMANN (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗨 English
ECON-S431	Graduate microeconomics II Patrick LEGROS (Coordinator) and Zsolt UDVARI ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗨 English
ECON-S510	Graduate microeconomics I Georg KIRCHSTEIGER (Coordinator) ⌚ 10 credits [lecture: 24h, tutorial classes: 24h] 📅 first term 🗨 English
STAT-F404	Graduate statistics Thomas VERDEBOUT (Coordinator) and Davy PAINDAVEINE ⌚ 5 credits [lecture: 36h] 📅 first term 🗨 English
STAT-F405	Time series analysis Yves-Caoimhin SWAN (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 12h] 📅 first term 🗨 English
STAT-F407	Stochastic models Jennifer ALONSO GARCIA (Coordinator) and Maarten JANSEN ⌚ 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-ECO

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 (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** | Patrick LEGROS (Coordinator) and Axel Gautier
 ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗨 English
- ECON-S453 (optional) **Impact analysis** | Philip VERWIMP (Coordinator) and Olivier Sterck
 ⌚ 5 credits [lecture: 12h, tutorial classes: 12h] 📅 first term 🗨 English
- ECON-S460 (optional) **Advanced topics in microeconomics** | Micael CASTANHEIRA DE MOURA (Coordinator)
 ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English
- ECON-S461 (optional) **Advanced topics in macroeconomics** | Heiko HESSE (Coordinator)
 ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English
- ECON-S513 (optional) **Behavioral economics** | Georg KIRCHSTEIGER (Coordinator)
 ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English
- ECON-S519 (optional) **Graduate microeconomics III** | Georg KIRCHSTEIGER (Coordinator), Oyvind AAS and Patrick LEGROS
 ⌚ 5 credits [lecture: 24h] 📅 first term 🗨 English
- ECON-S520 (optional) **Graduate macroeconomics III** | Filipp Ushchev (Coordinator) and Mathieu PARENTI
 ⌚ 5 credits [lecture: 36h] 📅 second term 🗨 English
- ECON-S521 (optional) **Graduate econometrics III** | David PREINERSTORFER (Coordinator)
 ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 English

Statistics

2 to 4 courses chosen from the following

<p>HULB-0000 (optional)</p>	<p>Cours externe à l'Université</p> <p>🕒 5 credits 📅 academic year</p>
<p>INFO-F422 (optional)</p>	<p>Statistical foundations of machine learning Gianluca BONTEMPI (Coordinator)</p> <p>🕒 5 credits [lecture: 24h, tutorial classes: 12h, practical work: 12h] 📅 second term 🗨 English</p>
<p>STAT-F408 (optional)</p>	<p>Computational statistics Maarten JANSEN (Coordinator)</p> <p>🕒 5 credits [lecture: 24h, tutorial classes: 12h] 📅 second term 🗨 English</p>
<p>STAT-F418 (optional)</p>	<p>Topics in nonparametric smoothing Maarten JANSEN (Coordinator)</p> <p>🕒 5 credits [lecture: 24h, tutorial classes: 12h] 📅 first term 🗨 English</p> <p>Ce cours n'est pas donné en 2022-23,2024-25 etc.</p>
<p>STAT-F420 (optional)</p>	<p>Topics in mathematical statistics Thomas VERDEBOUT (Coordinator)</p> <p>🕒 5 credits [lecture: 24h, tutorial classes: 12h] 📅 first term 🗨 English</p> <p>Ce cours n'est pas donné en 2023-24, 2025-26, etc.</p>
<p>STAT-F421 (optional)</p>	<p>Topics in probability theory Yves-Caoimhin SWAN (Coordinator)</p> <p>🕒 5 credits [lecture: 24h, tutorial classes: 12h] 📅 second term 🗨 English</p> <p>Ce cours est donné un an sur deux.</p>
<p>STAT-F507 (optional)</p>	<p>Sequential analysis</p> <p>🕒 5 credits [lecture: 24h] 📅 second term 🗨 English</p>
<p>TEMP-0000 (optional)</p>	<p>Cours extérieurs au programme</p> <p>🕒 5 credits 📅 academic year 🗨 French</p>

