# 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 | **Graduate macroeconomics I** | Fabio Blasutto (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** | Paula Eugenia GOBBI (Coordinator) and Alejandra Ramos
🕐 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** | Luca Paolo Merlino (Coordinator)
🕐 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) and Gani ALDASHEV
🕐 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-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** | Mathieu PARENTI (Coordinator), Filippo Biondi and Paola CONCONI
⏱ 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    **Graduate macroeconomics I** | Fabio Blasutto (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** | Paula Eugenia GOBBI (Coordinator) and Alejandra Ramos
🕐 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** | Luca Paolo Merlino (Coordinator)
🕐 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: 24h]   📅 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** | 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
(optional) | **Advanced topics in international economics** | Mathieu PARENTI (Coordinator)
5 credits [lecture: 24h]  second term  English

ECON-S432
(optional) | **Advanced international trade** | Mathieu PARENTI (Coordinator), Filippo Biondi and Paola CONCONI
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-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**
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)
5 credits [lecture: 24h]  first term  English

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

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

**Cours externe à l'Université**
🕑 5 credits    📅 academic year

**INFO-F422**
(optional)

**Statistical foundations of machine learning** | Gianluca BONTEMPI (Coordinator)
🕑 5 credits [lecture: 24h, tutorial classes: 12h, project: 60h]    📅 second term    💬 English

**STAT-F408**
(optional)

**Computational statistics** | Maarten JANSEN (Coordinator)
🕑 5 credits [lecture: 24h, tutorial classes: 12h, project: 100h]    📅 second term    💬 English

**STAT-F418**
(optional)

**Topics in nonparametric smoothing** | 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)

**Topics in mathematical statistics** | Thomas VERDEBOUT (Coordinator)
🕑 5 credits [lecture: 24h, tutorial classes: 12h]    📅 first term    💬 English

**STAT-F421**
(optional)

**Topics in probability theory** | 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)

**Sequential analysis**
🕑 5 credits [lecture: 24h]    📅 second term    💬 English

**TEMP-0000**
(optional)

**Cours extérieurs au programme**
🕑 5 credits    📅 academic year    💬 French