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-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 Marjorie GASSNER  
- 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  (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.

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

STAT-F404  (optional)  | Graduate statistics | Thomas VERDEBOUT (Coordinator) and Davy PAINDAVEINE
- 5 credits [lecture: 24h]  
- First term  
- English
Topics in economics

A total of 15 credits chosen from the following

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

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

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

**ECON-S453**
Impact analysis | Philip VERWIMP (Coordinator)
- 5 credits [lecture: 24h, tutorial classes: 12h]
- first term
- English

**ECON-S529**
Development economics | Philip VERWIMP (Coordinator)
- 5 credits [lecture: 24h]
- second term
- English

One course chosen from the following

**HULB-0000**
Cours externe à l'Université
- 5 credits
- academic year

**HULB-0000**
Cours externe à l'Université
- 10 credits
- academic year
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

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Coordinator</th>
<th>Credits</th>
<th>Type of Course</th>
<th>Language</th>
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<tbody>
<tr>
<td>ECON-S427</td>
<td>Graduate macroeconomics I</td>
<td>Fabio Blasutto (Coordinator)</td>
<td>10</td>
<td>1st term</td>
<td>English</td>
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<td>ECON-S428</td>
<td>Graduate econometrics I</td>
<td>Germain VAN BEVER (Coordinator)</td>
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<td>Graduate econometrics II</td>
<td>Paula Eugenia GOBBI (Coordinator) and Alejandra Ramos</td>
<td>5</td>
<td>2nd term</td>
<td>English</td>
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<td>ECON-S430</td>
<td>Graduate macroeconomics II</td>
<td>Robert KOLLMANN (Coordinator)</td>
<td>5</td>
<td>2nd term</td>
<td>English</td>
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<tr>
<td>ECON-S431</td>
<td>Graduate microeconomics II</td>
<td>Luca Paolo Merlino (Coordinator)</td>
<td>5</td>
<td>2nd term</td>
<td>English</td>
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<tr>
<td>ECON-S510</td>
<td>Graduate microeconomics I</td>
<td>Georg KIRCHSTEIGER (Coordinator)</td>
<td>10</td>
<td>1st term</td>
<td>English</td>
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<tr>
<td>STAT-F404</td>
<td>Graduate statistics</td>
<td>Thomas VERDEBOUT (Coordinator) and Davy PAINDAVEINE</td>
<td>5</td>
<td>1st term</td>
<td>English</td>
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<tr>
<td>STAT-F405</td>
<td>Time series analysis</td>
<td>Yves-Caoimhin SWAN (Coordinator)</td>
<td>5</td>
<td>1st term</td>
<td>English</td>
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<tr>
<td>STAT-F407</td>
<td>Stochastic models</td>
<td>Maarten JANSEN (Coordinator) and Jennifer ALONSO GARCIA</td>
<td>5</td>
<td>1st term</td>
<td>English</td>
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</tbody>
</table>
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 | 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-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  
(Course externe à l'Université)  
5 credits  
Academic year

INFO-F422  
Statistical foundations of machine learning  
Gianluca BONTEMPI (Coordinator)  
5 credits  
24h lecture, 12h tutorial classes, 60h project  
Second term  
English

STAT-F408  
Computational statistics  
Maarten JANSEN (Coordinator)  
5 credits  
24h lecture, 12h tutorial classes, 100h project  
Second term  
English

STAT-F418  
Topics in nonparametric smoothing  
Maarten JANSEN (Coordinator)  
5 credits  
24h lecture, 12h tutorial classes  
First term  
English

Ce cours n'est pas donné en 2023-24, 2025-26 etc.

STAT-F420  
Topics in mathematical statistics  
Thomas VERDEBOUT (Coordinator)  
5 credits  
24h lecture, 12h tutorial classes  
First term  
English

STAT-F421  
Topics in probability theory  
Yves-Caoimhin SWAN (Coordinator)  
5 credits  
24h lecture, 12h tutorial classes  
Second term  
English

Ce cours n'est pas donné en 2024-2025, 2026-2027 etc.

STAT-F507  
Sequential analysis  
5 credits  
24h lecture  
Second term  
English

TEMP-0000  
Cours extérieurs au programme  
5 credits  
Academic year  
French