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 (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
## Time series analysis
**Yves-Caoimhin SWAN (Coordinator)**
- 5 credits [lecture: 24h, tutorial classes: 12h]
- first term
- English

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

## Cours extérieurs au programme
- 5 credits  
  academic year
  French

---

### Topics in economics

A total of 15 credits chosen from the following

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Coordinator</th>
<th>Credits</th>
<th>Term</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON-S320</td>
<td>Advanced topics in international economics</td>
<td>Mathieu PARENTI (Coordinator)</td>
<td>5</td>
<td>second term</td>
<td>English</td>
</tr>
<tr>
<td>ECON-S432</td>
<td>Advanced international trade</td>
<td>Mathieu PARENTI (Coordinator), Filippo Biondi and Paola CONCONI</td>
<td>5</td>
<td>second term</td>
<td>English</td>
</tr>
<tr>
<td>ECON-S451</td>
<td>Advanced industrial organization</td>
<td>Mattia Nardotto (Coordinator)</td>
<td>5</td>
<td>second term</td>
<td>English</td>
</tr>
<tr>
<td>ECON-S453</td>
<td>Impact analysis</td>
<td>Philip VERWIMP (Coordinator)</td>
<td>5</td>
<td>first term</td>
<td>English</td>
</tr>
<tr>
<td>ECON-S529</td>
<td>Development economics</td>
<td>Philip VERWIMP (Coordinator)</td>
<td>5</td>
<td>second term</td>
<td>English</td>
</tr>
</tbody>
</table>

One course chosen from the following

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credits</th>
<th>Term</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>HULB-0000</td>
<td>Cours externe à l'Université</td>
<td>5</td>
<td>academic year</td>
<td></td>
</tr>
<tr>
<td>HULB-0000</td>
<td>Cours externe à l'Université</td>
<td>10</td>
<td>academic year</td>
<td></td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Coordinator(s)</th>
<th>Credits</th>
<th>Time</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON-5427</td>
<td>Graduate macroeconomics I</td>
<td>Fabio Blasutto (Coordinator)</td>
<td>10</td>
<td>first term</td>
<td>English</td>
</tr>
<tr>
<td>ECON-5428</td>
<td>Graduate econometrics I</td>
<td>Germain VAN BEVER (Coordinator)</td>
<td>10</td>
<td>first term</td>
<td>English</td>
</tr>
<tr>
<td>ECON-5429</td>
<td>Graduate econometrics II</td>
<td>Paula Eugenia GOBBI (Coordinator) and Alejandra Ramos</td>
<td>5</td>
<td>second term</td>
<td>English</td>
</tr>
<tr>
<td>ECON-5430</td>
<td>Graduate macroeconomics II</td>
<td>Robert KOLLMANN (Coordinator)</td>
<td>5</td>
<td>second term</td>
<td>English</td>
</tr>
<tr>
<td>ECON-5431</td>
<td>Graduate microeconomics II</td>
<td>Luca Paolo Merlino (Coordinator)</td>
<td>5</td>
<td>second term</td>
<td>English</td>
</tr>
<tr>
<td>ECON-5510</td>
<td>Graduate microeconomics I</td>
<td>Georg KIRCHSTEIGER (Coordinator)</td>
<td>10</td>
<td>first term</td>
<td>English</td>
</tr>
<tr>
<td>STAT-F404</td>
<td>Graduate statistics</td>
<td>Thomas VERDEBOUT (Coordinator) and Davy PAINDAVEINE</td>
<td>5</td>
<td>first term</td>
<td>English</td>
</tr>
<tr>
<td>STAT-F405</td>
<td>Time series analysis</td>
<td>Yves-Caoimhin SWAN (Coordinator)</td>
<td>5</td>
<td>first term</td>
<td>English</td>
</tr>
<tr>
<td>STAT-F407</td>
<td>Stochastic models</td>
<td>Maarten JANSEN (Coordinator) and Jennifer ALONSO GARCIA</td>
<td>5</td>
<td>first term</td>
<td>English</td>
</tr>
</tbody>
</table>
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