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

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Coordinator(s)</th>
<th>Credits</th>
<th>Type of Study</th>
<th>Language</th>
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</thead>
<tbody>
<tr>
<td>ECON-S427</td>
<td>Graduate macroeconomics I</td>
<td>Ansgar Rannenberg (Coordinator)</td>
<td>10</td>
<td>first term</td>
<td>English</td>
</tr>
<tr>
<td>ECON-S428</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-S429</td>
<td>Graduate econometrics II</td>
<td>Mattia Nardotto (Coordinator) and Paula Eugenia GOBBI</td>
<td>5</td>
<td>second term</td>
<td>English</td>
</tr>
<tr>
<td>ECON-S430</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-S431</td>
<td>Graduate microeconomics II</td>
<td>Patrick LEGROS (Coordinator) and Zsolt UDVARI</td>
<td>5</td>
<td>second term</td>
<td>English</td>
</tr>
<tr>
<td>ECON-S510</td>
<td>Graduate microeconomics I</td>
<td>Georg KIRCHSTEIGER (Coordinator)</td>
<td>10</td>
<td>first term</td>
<td>English</td>
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<tr>
<td>ECON-S517</td>
<td>Research topics</td>
<td>Philip VERWIMP (Coordinator), Gani ALDASHEV and Mathieu PARENTI</td>
<td>5</td>
<td>second term</td>
<td>English</td>
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<tr>
<td>MATH-S400</td>
<td>Mathematics and economic modelling</td>
<td>Thomas DEMUYNCK (Coordinator), Bram DE ROCK and Luca Paolo Merlino</td>
<td>5</td>
<td>first term</td>
<td>English</td>
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<tr>
<td>MATH-S401</td>
<td>Dynamic optimization</td>
<td>Thomas DEMUYNCK (Coordinator), Bram DE ROCK and Luca Paolo Merlino</td>
<td>5</td>
<td>second term</td>
<td>English</td>
</tr>
</tbody>
</table>
## 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  
  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

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

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

ECON-S529
Development economics | Philip VERWIMP (Coordinator) and Yasmine BEKKOUCHE
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.

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- 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  | 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
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: 24h, tutorial classes: 24h]  
- 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*
HULB-0000 (optional)
Cours externe à l'Université
Ø 5 credits  ☑ academic year

INFO-F422 (optional)
Statistical foundations of machine learning | Gianluca BONTEMPI (Coordinator)
Ø 5 credits [lecture: 24h, tutorial classes: 12h, practical work: 12h]  ☑ second term  ☑ English

STAT-F408 (optional)
Computational statistics | Maarten JANSEN (Coordinator)
Ø 5 credits [lecture: 24h, tutorial classes: 12h]  ☑ second term  ☑ English

STAT-F418 (optional)
Topics in nonparametric smoothing | Maarten JANSEN (Coordinator)
Ø 5 credits [lecture: 24h, tutorial classes: 12h]  ☑ first term  ☑ English
Ce cours n'est pas donné en 2022-23, 2024-25 etc.

STAT-F420 (optional)
Topics in mathematical statistics | Thomas VERDEBOUT (Coordinator)
Ø 5 credits [lecture: 24h, tutorial classes: 12h]  ☑ first term  ☑ English
Ce cours n'est pas donné en 2023-24, 2025-26, etc.

STAT-F421 (optional)
Topics in probability theory | Yves-Caoimhin SWAN (Coordinator)
Ø 5 credits [lecture: 24h, tutorial classes: 12h]  ☑ second term  ☑ English
Ce cours est donné un an sur deux.

STAT-F507 (optional)
Sequential analysis
Ø 5 credits [lecture: 24h]  ☑ second term  ☑ English

TEMP-0000 (optional)
Cours extérieurs au programme
Ø 5 credits  ☑ academic year  ☑ French