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>Name</th>
<th>Coordinator(s)</th>
<th>Credits</th>
<th>Term</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON-S427</td>
<td>Graduate macroeconomics I</td>
<td>Ansgar Rannenberg (Coordinator)</td>
<td>10</td>
<td>first</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</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</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</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</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</td>
<td>English</td>
</tr>
<tr>
<td>ECON-S517</td>
<td>Research topics</td>
<td>Philip VERWIMP (Coordinator), Gani ALDASHEV and Mathieu PARENTI</td>
<td>5</td>
<td>second</td>
<td>English</td>
</tr>
<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</td>
<td>English</td>
</tr>
<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</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.

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 Title</th>
<th>Coordinator(s)</th>
<th>Credits</th>
<th>Lecture Hours</th>
<th>Tutorial Classes</th>
<th>Term</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON-S427</td>
<td>Graduate macroeconomics I</td>
<td>Ansgar Rannenberg (Coordinator)</td>
<td>10</td>
<td>24h</td>
<td>24h</td>
<td>first</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>24h</td>
<td>24h</td>
<td>first</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>24h</td>
<td>12h</td>
<td>second</td>
<td>English</td>
</tr>
<tr>
<td>ECON-S430</td>
<td>Graduate macroeconomics II</td>
<td>Robert KOLLMANN (Coordinator)</td>
<td>5</td>
<td>24h</td>
<td>12h</td>
<td>second</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>24h</td>
<td>12h</td>
<td>second</td>
<td>English</td>
</tr>
<tr>
<td>ECON-S510</td>
<td>Graduate microeconomics I</td>
<td>Georg KIRCHSTEIGER (Coordinator)</td>
<td>10</td>
<td>24h</td>
<td></td>
<td>first</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>36h</td>
<td></td>
<td>first</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>24h</td>
<td>12h</td>
<td>first</td>
<td>English</td>
</tr>
<tr>
<td>STAT-F407</td>
<td>Stochastic models</td>
<td>Jennifer ALONSO GARCIA (Coordinator) and Maarten JANSEN</td>
<td>5</td>
<td>36h</td>
<td>12h</td>
<td>first</td>
<td>English</td>
</tr>
</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  | 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-S460  | Advanced topics in microeconomics | Micael CASTANHEIRA DE MOURA (Coordinator)
○ 5 credits [lecture: 24h] □ second term □ English

ECON-S461  | Advanced topics in macroeconomics | Heiko HESSE (Coordinator)
○ 5 credits [lecture: 24h] □ second term □ English

ECON-S513  | Behavioral economics | Georg KIRCHSTEIGER (Coordinator)
○ 5 credits [lecture: 24h] □ second term □ English

ECON-S519  | Graduate microeconomics III | Georg KIRCHSTEIGER (Coordinator), Oyvind AAS and Patrick LEGROS
○ 5 credits [lecture: 24h] □ first term □ English

ECON-S520  | Graduate macroeconomics III | Filipp Ushchev (Coordinator) and Mathieu PARENTI
○ 5 credits [lecture: 36h] □ second term □ English

ECON-S521  | Graduate econometrics III | David PREINERSTORFER (Coordinator)
○ 5 credits [lecture: 24h] □ second term □ English

Statistics

2 to 4 courses chosen from the following
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Coordinator(s)</th>
<th>Credits</th>
<th>Lecture Hours</th>
<th>Tutorial Hours</th>
<th>Practical Work</th>
<th>Term</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>HULB-0000</td>
<td>Cours externe à l'Université</td>
<td></td>
<td>5</td>
<td>academic year</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INFO-F422</td>
<td>Statistical foundations of machine learning</td>
<td>Gianluca BONTEMPI (Coordinator)</td>
<td>5</td>
<td>academic year</td>
<td>second term</td>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT-F408</td>
<td>Computational statistics</td>
<td>Maarten JANSEN (Coordinator)</td>
<td>5</td>
<td>academic year</td>
<td>second term</td>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT-F418</td>
<td>Topics in nonparametric smoothing</td>
<td>Maarten JANSEN (Coordinator)</td>
<td>5</td>
<td>academic year</td>
<td>first term</td>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT-F420</td>
<td>Topics in mathematical statistics</td>
<td>Thomas VERDEBOUT (Coordinator)</td>
<td>5</td>
<td>academic year</td>
<td>first term</td>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT-F421</td>
<td>Topics in probability theory</td>
<td>Yves-Caoimhin SWAN (Coordinator)</td>
<td>5</td>
<td>academic year</td>
<td>second term</td>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT-F507</td>
<td>Sequential analysis</td>
<td></td>
<td>5</td>
<td>academic year</td>
<td>second term</td>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEMP-0000</td>
<td>Cours extérieurs au programme</td>
<td></td>
<td>5</td>
<td>academic year</td>
<td></td>
<td></td>
<td></td>
<td>French</td>
</tr>
</tbody>
</table>