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</th>
<th>Credits</th>
<th>Credits [lecture: tutorial classes]</th>
<th>Term</th>
<th>Language</th>
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</thead>
<tbody>
<tr>
<td>ECON-5427</td>
<td>Graduate macroeconomics I</td>
<td>Fabio Blasutto (Coordinator)</td>
<td>10</td>
<td>[lecture: 24h, tutorial classes: 24h]</td>
<td>1st term</td>
<td>English</td>
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<tr>
<td>ECON-5428</td>
<td>Graduate econometrics I</td>
<td>Germain VAN BEVER (Coordinator)</td>
<td>10</td>
<td>[lecture: 24h, tutorial classes: 24h]</td>
<td>1st term</td>
<td>English</td>
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<tr>
<td>ECON-5429</td>
<td>Graduate econometrics II</td>
<td>Paula Eugenia GOBBI (Coordinator) and Alejandra Ramos</td>
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<td>2nd term</td>
<td>English</td>
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<tr>
<td>ECON-5430</td>
<td>Graduate macroeconomics II</td>
<td>Robert KOLLMANN (Coordinator)</td>
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<td>English</td>
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<tr>
<td>ECON-5431</td>
<td>Graduate microeconomics II</td>
<td>Luca Paolo Merlino (Coordinator)</td>
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<td>ECON-5510</td>
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<td>Georg KIRCHSTEIGER (Coordinator)</td>
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<td>English</td>
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<tr>
<td>ECON-5517</td>
<td>Research topics</td>
<td>Philip VERWIMP (Coordinator) and Gani ALDASHEV</td>
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<td>English</td>
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<tr>
<td>MATH-5400</td>
<td>Mathematics and economic modelling</td>
<td>Thomas DEMUYNCK (Coordinator), Bram DE ROCK and Marjorie GASSNER</td>
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<td>1st term</td>
<td>English</td>
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<tr>
<td>MATH-5401</td>
<td>Dynamic optimization</td>
<td>Thomas DEMUYNCK (Coordinator), Bram DE ROCK and Luca Paolo Merlino</td>
<td>5</td>
<td>[lecture: 36h, tutorial classes: 24h]</td>
<td>2nd term</td>
<td>English</td>
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</table>
Master in Economics: Econometrics
Focus: Research in Economics

Bloc 2 | M-ECOER | MA-ECOE

Cours Obligatoires

ECON-S504  Research methods and research communication
φ 5 credits [lecture: 36h]  ×  first term  ○  English
 MEMO-S522  Research seminar and master Thesis
φ 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
φ 5 credits [lecture: 24h]  ×  second term  ○  English
 ECON-S461  (optional)  Advanced topics in macroeconomics
φ 5 credits [lecture: 24h]  ×  second term  ○  English
 ECON-S513  (optional)  Behavioral economics
φ 5 credits [lecture: 24h]  ×  second term  ○  English
 ECON-S519  (optional)  Graduate microeconomics III
φ 5 credits [lecture: 24h]  ×  first term  ○  English
 ECON-S520  (optional)  Graduate macroeconomics III
φ 5 credits [lecture: 36h]  ×  first term  ○  English
 ECON-S521  (optional)  Graduate econometrics III
φ 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
φ 5 credits  ○  academic year
 HULB-0000  (optional)  Cours externe à l'Université
φ 10 credits  ○  academic year

STAT-F404  (optional)  Graduate statistics
φ 5 credits [lecture: 24h]  ×  first term  ○  English
### Topics in economics

A total of 15 credits chosen from the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Coordinator</th>
<th>Credits</th>
<th>Term</th>
<th>Language</th>
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<tbody>
<tr>
<td>ECON-S320</td>
<td>Advanced topics in international economics</td>
<td>Mathieu PARENTI</td>
<td>5</td>
<td>second</td>
<td>English</td>
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<tr>
<td>ECON-S432</td>
<td>Advanced international trade</td>
<td>Paola CONCONI and Mathieu PARENTI</td>
<td>5</td>
<td>second</td>
<td>English</td>
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<tr>
<td>ECON-S451</td>
<td>Advanced industrial organization</td>
<td>Mattia Nardotto</td>
<td>5</td>
<td>second</td>
<td>English</td>
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<tr>
<td>ECON-S453</td>
<td>Impact analysis</td>
<td>Philip VERWIMP</td>
<td>5</td>
<td>first</td>
<td>English</td>
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<tr>
<td>ECON-S529</td>
<td>Development economics</td>
<td>Philip VERWIMP</td>
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<td>English</td>
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One course chosen from the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
<th>Language</th>
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<tbody>
<tr>
<td>HULB-0000</td>
<td>Cours externe à l'Université</td>
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<td>academic year</td>
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<tr>
<td>HULB-0000</td>
<td>Cours externe à l'Université</td>
<td>10</td>
<td>academic year</td>
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</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>Course Title</th>
<th>Coordinator(s)</th>
<th>Credits</th>
<th>Lectures</th>
<th>Tutorial Classes</th>
<th>Term</th>
<th>Language</th>
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<tbody>
<tr>
<td>ECON-S427</td>
<td>Graduate macroeconomics I</td>
<td>Fabio Blasutto (Coordinator)</td>
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<td>24h</td>
<td>24h</td>
<td>first</td>
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<td>ECON-S428</td>
<td>Graduate econometrics I</td>
<td>Germain VAN BEVER (Coordinator)</td>
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<tr>
<td>ECON-S429</td>
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<td>Paula Eugenia GOBBI (Coordinator) and Alejandra Ramos</td>
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<tr>
<td>ECON-S430</td>
<td>Graduate macroeconomics II</td>
<td>Robert KOLLMANN (Coordinator)</td>
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<td>second</td>
<td>English</td>
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<tr>
<td>ECON-S431</td>
<td>Graduate microeconomics II</td>
<td>Luca Paolo Merlino (Coordinator)</td>
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<td>24h</td>
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<td>second</td>
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<tr>
<td>ECON-S510</td>
<td>Graduate microeconomics I</td>
<td>Georg KIRCHSTEIGER (Coordinator)</td>
<td>10</td>
<td>24h</td>
<td>24h</td>
<td>first</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>24h</td>
<td>12h</td>
<td>first</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>24h</td>
<td>12h</td>
<td>first</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>36h</td>
<td>12h</td>
<td>first</td>
<td>English</td>
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Cours obligatoires

ECON-S504  Research methods and research communication  | Philip VERWIMP (Coordinator)
- 5 credits [lecture: 36h]
- 5 credits [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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits [Lecture: 24h, Tutorial classes: 12h, Project: 60h]</th>
<th>Term</th>
<th>Language</th>
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</thead>
<tbody>
<tr>
<td>HULB-0000</td>
<td>Cours externe à l'Université</td>
<td>5 credits</td>
<td></td>
<td>Cool, academic year</td>
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<tr>
<td>INFO-F422</td>
<td><strong>Statistical foundations of machine learning</strong></td>
<td>Gianluca BONTEMPI (Coordinator)</td>
<td>5 credits</td>
<td>Cool, academic year, English</td>
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<tr>
<td>STAT-F408</td>
<td><strong>Computational statistics</strong></td>
<td>Maarten JANSEN (Coordinator)</td>
<td>5 credits</td>
<td>Cool, academic year, English</td>
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<tr>
<td>STAT-F418</td>
<td><strong>Topics in nonparametric smoothing</strong></td>
<td>Maarten JANSEN (Coordinator)</td>
<td>5 credits</td>
<td>Cool, first term, English</td>
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<td>STAT-F420</td>
<td><strong>Topics in mathematical statistics</strong></td>
<td>Thomas VERDEBOUT (Coordinator)</td>
<td>5 credits</td>
<td>Cool, first term, English</td>
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<tr>
<td>STAT-F421</td>
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<td>Yves-Caoimhin SWAN (Coordinator)</td>
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<tr>
<td>STAT-F507</td>
<td>Sequential analysis</td>
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<td>Cool, second term, English</td>
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<tr>
<td>TEMP-0000</td>
<td>Cours extérieurs au programme</td>
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<td>Cool, academic year, French</td>
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