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>Course Code</th>
<th>Course Name</th>
<th>Coordinator(s)</th>
<th>Credits</th>
<th>Lectures</th>
<th>Tutorial Classes</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>24h</td>
<td>24h</td>
<td>English</td>
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<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>English</td>
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<tr>
<td>ECON-S429</td>
<td>Graduate econometrics II</td>
<td>Paula Eugenia GOBBI (Coordinator) and Alejandra Ramos</td>
<td>5</td>
<td>24h</td>
<td>24h</td>
<td>English</td>
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<tr>
<td>ECON-S430</td>
<td>Graduate macroeconomics II</td>
<td>Robert KOLLMANN (Coordinator)</td>
<td>5</td>
<td>24h</td>
<td>24h</td>
<td>English</td>
</tr>
<tr>
<td>ECON-S431</td>
<td>Graduate microeconomics II</td>
<td>Luca Paolo Merlino (Coordinator)</td>
<td>5</td>
<td>24h</td>
<td>24h</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>
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<tr>
<td>ECON-S517</td>
<td>Research topics</td>
<td>Philip VERWIMP (Coordinator) and Gani ALDASHEV</td>
<td>5</td>
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<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>36h</td>
<td></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>36h</td>
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<td>English</td>
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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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Coordinator(s)</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 (Coordinator)</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>Mathieu PARENTI (Coordinator)</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 (Coordinator)</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 (Coordinator)</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 (Coordinator)</td>
<td>5</td>
<td>second</td>
<td>English</td>
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One course chosen from the following:

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</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>
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<td>academic</td>
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<tr>
<td>HULB-0000</td>
<td>Cours externe à l'Université</td>
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<td>academic</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

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

STAT-F404  Graduate statistics | Thomas VERDEBOUT (Coordinator) and Davy PAINDAVEINE
  ☑ 5 credits [lecture: 24h] ☑ 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 | Maarten JANSEN (Coordinator) and Jennifer ALONSO GARCIA
  ☑ 5 credits [lecture: 36h, tutorial classes: 12h] ☑ first term ☑ English
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 | Mathieu PARENTI (Coordinator), Filippo Biondi and Paola CONCONI
- 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: 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
- 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)
- 5 credits [lecture: 24h]  - first term  - English

ECON-S520 | Graduate macroeconomics III
- 5 credits [lecture: 36h]  - first term  - English

ECON-S521 | 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 and Coordinator</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>
<td>5</td>
<td></td>
<td></td>
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<tr>
<td>INFO-F422</td>
<td>Statistical foundations of machine learning</td>
<td>5 [lecture: 24h, tutorial classes: 12h, project: 60h]</td>
<td>second term</td>
<td>English</td>
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<tr>
<td>STAT-F408</td>
<td>Computational statistics</td>
<td>5 [lecture: 24h, tutorial classes: 12h, project: 100h]</td>
<td>second term</td>
<td>English</td>
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<tr>
<td>STAT-F418</td>
<td>Topics in nonparametric smoothing</td>
<td>5 [lecture: 24h, tutorial classes: 12h]</td>
<td>first term</td>
<td>English</td>
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<tr>
<td>STAT-F420</td>
<td>Topics in mathematical statistics</td>
<td>5 [lecture: 24h, tutorial classes: 12h]</td>
<td>first term</td>
<td>English</td>
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<tr>
<td>STAT-F421</td>
<td>Topics in probability theory</td>
<td>5 [lecture: 24h, tutorial classes: 12h]</td>
<td>second term</td>
<td>English</td>
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<td>STAT-F507</td>
<td>Sequential analysis</td>
<td>5 [lecture: 24h]</td>
<td>second term</td>
<td>English</td>
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<tr>
<td>TEMP-0000</td>
<td>Cours extérieurs au programme</td>
<td>5</td>
<td>academic year</td>
<td>French</td>
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