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-5427 | Graduate macroeconomics I | Fabio Blasutto (Coordinator)
- 10 credits [lecture: 24h, tutorial classes: 24h]
- first term
- English

ECON-5428 | Graduate econometrics I | Germain VAN BEVER (Coordinator)
- 10 credits [lecture: 24h, tutorial classes: 24h]
- first term
- English

ECON-5429 | Graduate econometrics II | Paula Eugenia GOBBI (Coordinator) and Alejandra Ramos
- 5 credits [lecture: 24h, tutorial classes: 24h]
- second term
- English

ECON-5430 | Graduate macroeconomics II | Robert KOLLMANN (Coordinator)
- 5 credits [lecture: 24h, tutorial classes: 24h]
- second term
- English

ECON-5431 | Graduate microeconomics II | Luca Paolo Merlino (Coordinator)
- 5 credits [lecture: 24h, tutorial classes: 24h]
- second term
- English

ECON-5510 | Graduate microeconomics I | Georg KIRCHSTEIGER (Coordinator)
- 10 credits [lecture: 24h, tutorial classes: 24h]
- first term
- English

ECON-5517 | Research topics | Philip VERWIMP (Coordinator) and Gani ALDASHEV
- 5 credits [lecture: 24h]
- second term
- English

MATH-5400 | Mathematics and economic modelling | Thomas DEMUYNCK (Coordinator), Bram DE ROCK and Marjorie GASSNER
- 5 credits [lecture: 36h, tutorial classes: 24h]
- first term
- English

MATH-5401 | Dynamic optimization | Thomas DEMUYNCK (Coordinator), Bram DE ROCK and Luca Paolo Merlino
- 5 credits [lecture: 36h, tutorial classes: 24h]
- second term
- English
 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 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.

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

STAT-F404 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

- **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, tutorial classes: 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-S529** (optional)
  - Development economics | Philip VERWIMP (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
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 |
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  | 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>Coordinator</th>
<th>Credits</th>
<th>Term</th>
<th>Language</th>
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<tr>
<td>HULB-0000</td>
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<td>academic year</td>
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<td>INFO-F422</td>
<td>Statistical foundations of machine learning</td>
<td>Gianluca BONTEMPI (Coordinator)</td>
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<td>Computational statistics</td>
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<td>STAT-F418</td>
<td>Topics in nonparametric smoothing</td>
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<td>Topics in probability theory</td>
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<td>TEMP-0000</td>
<td>Cours extérieurs au programme</td>
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