

**ETRI2M**

2013 - 2014

Master [120] in Economics: Econometrics

**At Louvain-la-Neuve - 120 credits - 2 years - Day schedule - In english**Dissertation/Graduation Project : **YES** - Internship : **NO**Activities in English: **YES** - Activities in other languages : **NO**Activities on other sites : **optional**Main study domain : **Sciences économiques et de gestion**Organized by: **Faculté des sciences économiques, sociales, politiques et de communication (ESPO)**Programme code: **etri2m** - European Qualifications Framework (EQF): 7**Table of contents**

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## ETRI2M - Introduction

### Introduction

Organised in collaboration with the UNamur and the KULeuven and equivalent to the MPhil programmes of foreign universities (UK, Netherlands, for example), the master in economic sciences, econometrics orientation is designed for students who envisage continuing their training with a third cycle (doctorate) and wish to receive in two years a training in research that will enable them to pursue a doctoral thesis project under ideal conditions. The courses are given in English by researchers who propose advanced questions in topics of pure economics.

THIS PROGRAMME IS GIVEN AND EVALUATED ENTIRELY IN ENGLISH.

### Your profile

- You have good skills in mathematics and statistics and wish to contribute to the analysis of the most recent economic and social questions;
- you wish to do research and envisage continuing your education with a doctorate;
- you are interested in pure economics and wish to acquire an analytical expertise on economic matters.

### Your future job

Our graduates will orient themselves both towards the private sector and towards the public or institutional sector, where they will hold analytical positions and participate in decision-making of all kinds: economic policy decisions or strategic corporate decisions.

### Your programme

The master offers you

- the possibility of composing your programme à la carte to acquire expertise in a specialised area, as a function of your field of research;
- advanced training in the methodological tools of the economist; many personal works and research seminars on specialised issues;
- a preparation for writing scientific articles in your area of specialisation;
- an integration into international research teams for doing your thesis.

## ETRI2M - Admission

***For the specific conditions of this program : refer to the French version***

*General and specific admission requirements for this program must be satisfied at the time of enrolling at the university..*

## ETRI2M - Information

### Learning outcomes

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The second cycle training available at the Department of Economic Science is designed to train academics to understand and analyse the practical economic and social issues of their time, explain and communicate their analyses to a wide range of audiences, put their analyses in wider contexts and go on to work with specialists from other disciplines.

The precise objective of the 120 credit Master in economic sciences with econometrics is to provide the economist with advanced methodological tools and strong analytical skills. It is therefore centred on the research focus and designed for students who intend to move on to a doctorate. This two year programme will provide them with research skills so that they are as well equipped as possible to do a doctoral dissertation.

This programme corresponds to the MPhil of foreign universities (for example the UK and the Netherlands) which offers a two year second cycle research-led programme leading on to a doctorate.

**From the outset, this programme requires a good level in mathematics and statistics for economists.**

### Teaching method

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The programme is mainly designed as a training course for research into economics. The teaching methods vary according to objectives. The ex cathedra courses enable students to acquire basic tools for research into economics. Depending on the subject, there may also be additional practical work or reading tasks using relevant academic articles. Students learn how to communicate the results of their research orally through the dissertation seminars. The dissertation helps students to write academic articles. Finally, through Research seminars I and II, students learn how to understand and synthesize presentations which cover new research ground.

### Evaluation

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Depending on the activity, different forms of assessment are used. The assessment of work for courses will usually take the form of an examination (written or oral) and/or a piece of individual work. The assessment of participation in seminars will be on the production and oral presentation of an individual piece of work or one done by a group. Final dissertations are assessed by a board of examiners, on the basis of a written document and its oral presentation, both at the intermediary and final stages.

### Mobility and/or Internationalisation outlook

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This programme, entirely in English and designed as training for research, is aimed at an international audience. Louvain has a long tradition and an outstanding reputation in this field. The majority of the students doing a doctorate are non-Belgian. Cooperation with KUL makes the programme more attractive since advanced level subjects (all in English) are available in a wide variety of key fields in economics.

### Possible trainings at the end of the programme

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- Advanced Masters : Master in International Economics and Development (University Development Commission - Commission universitaire au développement – CUD)
- Doctoral programme training : doctorate in Economic Sciences

### Certificates

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Students who decide only to take a part of the proposed programme may either move to the 60 credit general Master programme or, alternatively, receive a diploma.

## ETRI2M - Contacts

### Curriculum Managment

Entite de la structure ECON

Acronyme	<b>ECON</b>
Dénomination	Ecole des Sciences économiques/Economics School of Louvain
Adresse	Place Montesquieu, 3 bte L2.06.01 1348 Louvain-la-Neuve Tél 010 47 39 53 - Fax 010 47 32 90
Site web	<a href="https://www.uclouvain.be/econ.html">https://www.uclouvain.be/econ.html</a>
Secteur	Secteur des sciences humaines (SSH)
Faculté	Faculté des sciences économiques, sociales, politiques et de communication (ESPO)
Commission de programme	Ecole des Sciences économiques/Economics School of Louvain (ECON)

**Academic Supervisor :** [Sébastien Van Bellegem](#)

### Jury

Président du Jury : **Sébastien Van Bellegem**

Secrétaire du Jury : **Fabio Mariani**

### Usefull Contacts

Responsable administrative : **Marie Gilot**

## ETRI2M - Detailed programme

## Programme structure

The programme is organized by UCL through the Louvain School of Economics with the cooperation of the FUNDP in Namur and KULeuven and other Academy partners.

## Structure

The 120 credit Master in Economic Sciences with Econometrics is centred on the research focus. The core subjects of the econometrics component is the same as the research focus of the general course. The 30 credits are therefore common to both the general course and the course with econometrics. The 120 credit Master with econometrics comprises :

- core subjects of 60 credits ;
- a focus of 30 credits ;
- two options of 15 credits each.

PLEASE NOTE THAT THIS PROGRAMME IS BOTH GIVEN AND ASSESSED IN ENGLISH

*Whatever the focus or the options chosen, the programme of this master shall totalize 120 credits, spread over two years of studies each of 60 credits.*

## Core study

> [Main Courses](#) [ en-prog-2013-etri2m-letri200t.html ]

> [Research focus](#) [ en-prog-2013-etri2m-letri200a ]

## Options courses

> [Advanced Economics](#) [ en-prog-2013-etri2m-letri220o.html ]

> [Topics in Economic Research](#) [ en-prog-2013-etri2m-letri210o.html ]

## Programme by subject

## Core courses [75.0]

● Mandatory

△ Courses not taught during 2013-2014

⊕ Periodic courses taught during 2013-2014

⊗ Optional

⊙ Periodic courses not taught during 2013-2014

⊞ Two years course

Click on the course title to see detailed informations (objectives, methods, evaluation...)

						Year	
						1	2
● LETRI2800	<a href="#">Essay paper</a>	N.		15 Credits		x	
● <b>Thesis (25 credits)</b>							
● LETRI2900	<a href="#">Thesis</a>	N.		20 Credits			x
● LETRI2910	<a href="#">Tutorial</a>	N.	0h+6h	5 Credits			x

● **Advanced Courses in Economics (15 credits)**

3 courses out of the following will be offered every year. The student who wants to replace one of this courses by another one from the list Advanced Economic Analysis II will introduce a motivated request.

⊗ LECON2701A	<a href="#">Advanced course in Economics I: General Equilibrium Theory</a>	N.		5 Credits		x	x
⊗ LECON2701B	<a href="#">Advanced course in Economics I: Game Theory</a>	N.		5 Credits		x	x
⊗ LECON2701C	<a href="#">Advanced course in Economics I: Microeconomics</a>	N.		5 Credits		x	x

							Year	
							1	2
⌘ LECON2701D	Advanced Course in Economics: Industrial Organisation	N.		5 Credits			x	x
⌘ LECON2702A	Advanced course in Economics II: Public Economics	N.		5 Credits			x	x
⌘ LECON2702B	Advanced course in Economics II: Labour Economics	N.		5 Credits			x	x
⌘ LECON2702C	Advanced course in Economics II: Social Economics	N.		5 Credits			x	x
⌘ LECON2702D	Advanced course in Economics II: Financial economics	N.		5 Credits			x	x
⌘ LECON2703A	Advanced course in Economics III: Macroeconomics Dynamics	N.		5 Credits			x	x
⌘ LECON2703B	Advanced course in Economics III: Critical Analysis	N.		5 Credits			x	x
⌘ LECON2703C	Advanced course in Economics III: Econometrics	N.		5 Credits			x	x

### o Seminar (5 credits)

1 among :

⌘ LECON2163	Econometrics	N.		5 Credits			x	x
⌘ LECON2165	Economic Theory	N.		5 Credits			x	x
⌘ LECON2167	Séminaire économique de Louvain	N.		5 Credits			x	x

### o Quantitative Methods (15 credits)

○ LECON2500	Mathematics and Statistics for Economics	Julio Davila Muro, Sébastien Van Belleghem	30h	5 Credits	1q	x	
○ LECON2600	Dynamical Methods in Economics	Maria del Carmen Camacho Pérez	30h	5 Credits	1q	x	

### o Econometrics (5 credits)

Un parmi

⌘ LECON2601	Advanced Econometrics II - Time Series Econometrics	Martin Wagner	30h	5 Credits	2q	x	x
⌘ LECON2602	Advanced Econometrics II - Microeconometrics	William Parienté	30h	5 Credits	2q	x	x

## Research focus [30.0]

○ Mandatory

△ Courses not taught during 2013-2014

⊕ Periodic courses taught during 2013-2014

⌘ Optional

⊖ Periodic courses not taught during 2013-2014

⚡ Two years course

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

1 2

### o Foundations in economics (25 credits)

○ LECON2111	Advanced Microeconomics I: Decision and Game Theory	François Maniquet	30h+6h	5 Credits		x	
○ LECON2112	Advanced Microeconomics II: General Equilibrium and Mechanism Design	Julio Davila Muro	30h+6h	5 Credits		x	
○ LECON2121	Advanced Macroeconomics I : Intertemporal Behavior and Business Cycles	Luca Pensieroso, Henri Sneessens, null SOMEBODY	30h+6h	5 Credits		x	
○ LECON2122	Advanced Macroeconomics II : Growth, Dynamics and Policy	Alexander Ludwig	30h+6h	5 Credits		x	
○ LECON2131	Advanced Econometrics - UCL	Sébastien Van Belleghem	30h	5 Credits	1q	x	

Year

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⌘ **Research seminar I (5 credits)**

1 among :

⌘ LECON2161	Research Seminar I: Macroeconomics	David De la Croix	30h	5 Credits		x	
⌘ LECON2653	Research Seminar I : Microeconomics (M613 - UNamur)	N.	30h	5 Credits		x	
⌘ LECON2603	RS I: Econometrics Workshop	Ernesto San Martin Gutiérrez	30h	5 Credits	2q	x	





## Options [15.0]

Les étudiants choisissent trois cours (15 crédits) parmi l'offre de cours des deux options suivantes.

*The student choose three courses among the list Advanced Economic I or Advanced Economic II*

- > [Advanced Economics](#) [ en-prog-2013-etri2m-letri220o ]  
 > [Topics in Economic Research](#) [ en-prog-2013-etri2m-letri210o ]

## ADVANCED ECONOMICS [15.0]

● Mandatory

△ Courses not taught during 2013-2014

⊕ Periodic courses taught during 2013-2014

⌘ Optional

⊖ Periodic courses not taught during 2013-2014

⚡ Two years course

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

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### ⌘ Quantitative methods

⌘ LECON2603	<a href="#">RS I: Econometrics Workshop</a>	<a href="#">Ernesto San Martin Gutiérrez</a>	30h	5 Credits	2q	x	
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### ⌘ International

⌘ LECON2604	<a href="#">Advanced International Trade</a>	<a href="#">Florian Mayneris, Mathieu Parenti, Hylke Vandenbussche</a>	30h	5 Credits	2q	x	
⌘ LECON2622	<a href="#">Advanced Intern Monetary Eco - KUL</a>	N.		5 Credits		x	x
⌘ LECON2624	<a href="#">Current Development in European Integration - KUL</a>	N.		5 Credits		x	x

### ⌘ Money and Finance

⌘ LECON2605	<a href="#">Capital Markets Theory</a>	N.	30h	5 Credits	2q ⊖	x	
⌘ LECON2625	<a href="#">Fixed Income Securities - KUL</a>	N.		5 Credits		x	x
⌘ LECON2654	<a href="#">Advanced Monetary Economics (UNamur)</a>	N.	30h	5 Credits		x	x

### ⌘ Public Economics

⌘ LECON2607	<a href="#">Public Economics</a>	<a href="#">Jean Hindriks</a>	30h	5 Credits	2q	x	
⌘ LECON2069	<a href="#">Ethics and Social Choice</a>	<a href="#">François Maniquet, Eve Ramaekers</a> (compensates Fran&cedil;ois Maniquet)	30h	5 Credits	⊕	x	
⌘ LECON2620	<a href="#">Advanced Environmental and Transportation - KUL</a>	N.		5 Credits		x	x

### ⌘ Reflexive courses

⌘ LECON2065	<a href="#">History of Economic Thought</a>	<a href="#">Luca Pensieroso</a>	30h	5 Credits	1q	x	
⌘ LECON2067	<a href="#">Critical Analysis of Market Economies</a>	<a href="#">Christian Arnsperger</a>	30h	5 Credits	1q ⊕	x	

Year

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## ❖ Other fields

❖ LECON2608	Advanced Labour Economics	Muriel Dejemeppe, Bruno Van der Linden (compensates Muriel Dejemeppe), Bruno Van der Linden	30h	5 Credits	2q		x
❖ LECON2342	Development theories	Andreia Lemaître, Marthe Nyssens	30h	5 Credits	2q		x
❖ LECON2652	Microinstitutions and Markets in Developing Economies - UNamur	N.	30h	5 Credits	2q	x	x
❖ LECON2621	Advanced Industrial Economics - KUL	N.		5 Credits		x	x
❖ LECON2610	Industrial Organization	Mathieu Parenti	30h	5 Credits		x	x
❖ LECON2655	Population and Family Economics	Fabio Mariani	30h	5 Credits	2q ⊕	x	
❖ LECON2665	Political Economy and Macro Institutions in Developing Economies - UNamur	N.	30h	5 Credits	2q	x	

**TOPICS IN ECONOMIC RESEARCH [15.0]**

L'étudiant choisira parmi les cours d'économie de niveau approfondi enseignés à l'UCL - voir liste ci-dessous. Il pourra également suivre des cours d'économie de niveau approfondi dans d'autres universités belges (UNamur, KULeuven, USaint-Louis-Bruxelles).

Cette liste est indicative et pourra évoluer au fil du temps.

Chaque cours vaut 5 crédits.

● Mandatory

△ Courses not taught during 2013-2014

⊕ Periodic courses taught during 2013-2014

⊗ Optional

⊖ Periodic courses not taught during 2013-2014

⦶ Two years course

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

1 2

**⊗ Advanced Courses in Economics at UCL**

⊗ LECON2701A	<a href="#">Advanced course in Economics I: General Equilibrium Theory</a>	N.		5 Credits		X	X
⊗ LECON2701B	<a href="#">Advanced course in Economics I: Game Theory</a>	N.		5 Credits		X	X
⊗ LECON2701C	<a href="#">Advanced course in Economics I: Microeconomics</a>	N.		5 Credits		X	X
⊗ LECON2701D	<a href="#">Advanced Course in Economics: Industrial Organisation</a>	N.		5 Credits		X	X
⊗ LECON2702A	<a href="#">Advanced course in Economics II: Public Economics</a>	N.		5 Credits		X	X
⊗ LECON2702B	<a href="#">Advanced course in Economics II: Labour Economics</a>	N.		5 Credits		X	X
⊗ LECON2702C	<a href="#">Advanced course in Economics II: Social Economics</a>	N.		5 Credits		X	X
⊗ LECON2702D	<a href="#">Advanced course in Economics II: Financial economics</a>	N.		5 Credits		X	X
⊗ LECON2703A	<a href="#">Advanced course in Economics III: Macroeconomics Dynamics</a>	N.		5 Credits		X	X
⊗ LECON2703B	<a href="#">Advanced course in Economics III: Critical Analysis</a>	N.		5 Credits		X	X
⊗ LECON2703C	<a href="#">Advanced course in Economics III: Econometrics</a>	N.		5 Credits		X	X
⊗	<a href="#">Advanced Courses in Economics at UNamur</a>	N.		Credits		X	X
⊗	<a href="#">Advanced Courses in Economics at KULeuven</a>	N.		Credits		X	X
⊗	<a href="#">Advanced Courses in Economics at USaint-Louis (BXL)</a>	N.		Credits		X	X
⊗	<a href="#">Advanced Courses in Economics at other Universities</a>	N.		Credits		X	X

