

DIPLOMA LEVEL: MASTER (BAC +5) · DURATION OF THE PROGRAM: 2 YEARS

MASTER' COURSES
APPLIED ECONOMICS
TRACK ADVANCED APPLIED ECONOMICS



COURSE UNITS



The "Advanced Applied Economics" program is generalist and research oriented, with a special focus on the following areas during the second year: industrial organization, environment and energy; social choice and public policy; macroeconomics and international economics.

THE FIRST YEAR (M1)

It is structured in two transversal teaching units, each containing 3 courses in Economic Modeling on the one hand and in Econometrics and Data Processing on the other hand. These courses are transversal because they are based on specific techniques that apply to all fields of economics.

From the second semester onwards, the teaching progressively comes to focus on thematic areas (Firms and Market; Trade Policies; Information and Contracts; Public economics; Social choice; Economic policy): starting from some problems, we make use of the suitable techniques to deal with those problems.

COURSE OVERVIEW

The Master degree in Advanced Applied Economics is fully taught in english.

The objective of this master's degree is to provide a general curriculum in applied economics at the research level, allowing for a continuation into a PhD programme.

Since this course is an applied course, it is focused on real economic problems taken in their context, relying heavily on data analysis, econometrics, and economic modeling.

But this course is also an advanced course, which means that it will provide students with a deeper understanding of fundamental concepts and techniques used in economics, both at the theoretical and empirical levels, that will allow them to develop a critical approach of how to use them and propose original solutions to existing problems and test them.

ENTRY REQUIREMENTS

BA Economics, BS Mathematics.

Candidates must have demonstrated certain abilities and interest in subjects related to modeling: mathematics; statistics; econometrics ; microeconomics; macroeconomics...

IN THE SECOND YEAR (M2)

All courses are thematic:

Provisional list, beginning of M2 September 2023

- Advanced International Trade
- Agricultural/Natural Resources Economics with Social Choice Skills
- Corporate Finance and Product market competition
- Experimental Social Choice
- Macroeconomic modeling for Fiscal, Monetary and Prudential Policies
- Mechanism Design
- Topics in Energy Economics
- Topics in Applied MicroEconometrics
- Topics in Health and Environnement
- Topics in Intertemporal Choice: A life Cycle Perspective
- Topics in Trade and Environnement
- Topics in Intertemporal Macroéconomics

Supervised projects included in the curriculum: M1 (essay in bibliography; project in economic modeling; project in econometrics) M2 (Research Master Thesis) + research internship.

TUITION FEES

The tuition fees for international students are charged the same rate as French students (243 € + 92 € in 2021-2022).

COURSE STRUCTURE

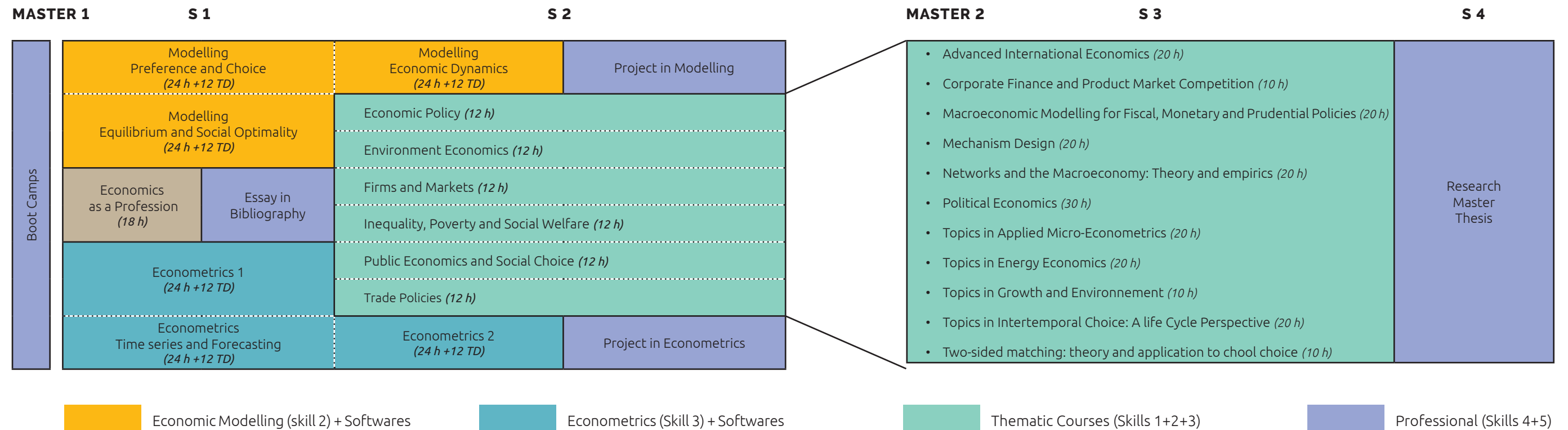
The courses are organized in face-to-face sessions (exceptionally, some courses may be given remotely).

COURSE ARRANGEMENTS FOR ELIGIBLE STUDENTS

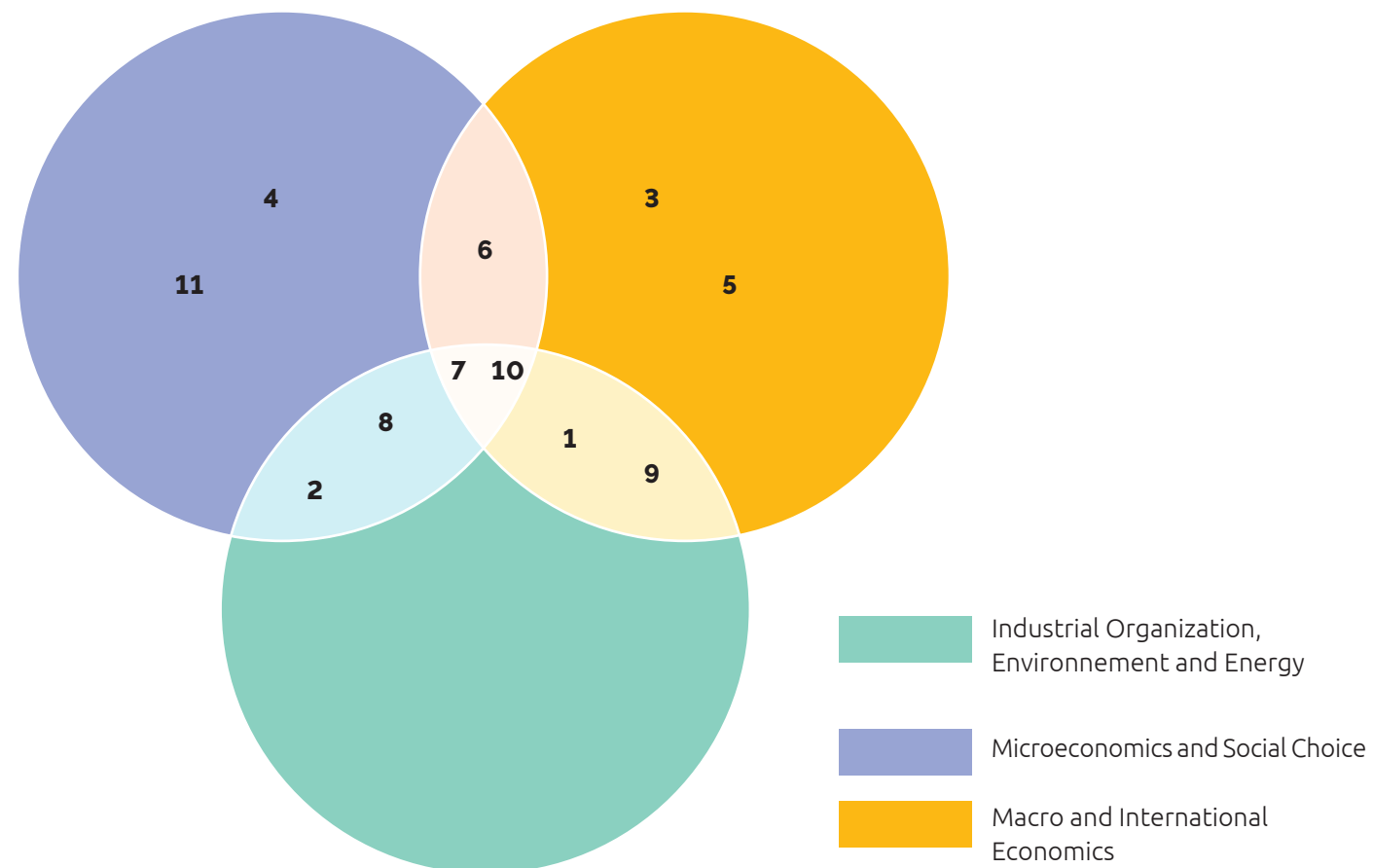
The Relais Handicap Santé provides personalized support to people with disabilities throughout their training to facilitate their educational integration

LANGUAGE

English 100%



Skills: 1. Problematize and Contextualize | 2. Thinks in terms of models | 3. Colect and analyze data | 4. Communicate | 5. Behave professionally



| M2 THEMATIC COURSES | |
|---------------------|---|
| 1 | Advanced International Economics |
| 2 | Corporate Finance and Product market competition |
| 3 | Macro. Modelling for Fiscal, Monetary & Prudential Policies |
| 4 | Mechanism Design |
| 5 | Networks and the Macroeconomy : theory and empirics |
| 6 | Political Economics |
| 7 | Topics in Applied MicroEconometrics |
| 8 | Topics in Energy Economics |
| 9 | Topics in Growth and Environnement |
| 10 | Topics in Intertemporal Choice: A life Cycle Perspective |
| 11 | Two-sided matching: theory and application to school choice |

SKILLS TO BE ACQUIRED AT THE END OF THE MASTER'S DEGREE ADVANCED APPLIED ECONOMICS

PROBLEMATIZE AN ECONOMIC ISSUE AND CONTEXTUALIZE IT SOCIALLY, HISTORICALLY AND WITHIN ACADEMIC LITERATURE

- Apply economic analysis to evaluate everyday problems
- Apply economic analysis to evaluate specific policy proposals
- Compare two or more arguments that have different conclusions to a specific issue or problem
- Understand the underlying interests of various stakeholders involved in a specific problem
- Review the state of the art of the economic literature on a specific problem

THINK IN TERMS OF MODELS TO REACH A DEEPER UNDERSTANDING OF AN ECONOMIC PROBLEM AND EVALUATE POTENTIAL SOLUTIONS

- Have an advanced understanding of the main modelling tools used in economics, their strengths, and weaknesses
- Develop deeper critical and quantitative thinking skills and apply problem-solving skills to complex problems
- Understand the role of assumptions in arguments
- Be able to identify implicit assumptions in existing models and arguments
- Propose solutions for problems that do not have clear answers and indicate under what conditions they may be viable solutions.
- Have a practical knowledge of programming tools and language for model calibration

COLLECT, TREAT AND ANALYZE MULTI-DIMENSIONAL ECONOMIC DATASETS

- Obtain and/or collect relevant data using specific qualitative and/or quantitative research methods
- Possess a working knowledge of information databases
- Know how to locate and use primary data sources
- Understand how to use empirical evidence to evaluate an economic argument.
- Critically interpret statistical results
- Conduct appropriate statistical and econometric analysis of data, and explain the statistical problems involved
- Have a practical knowledge of programming tools and languages for econometric analysis

COMMUNICATE PROFESSIONALLY ON A RESEARCH OUTCOME IN FRONT OF VARIOUS AUDIENCES

- Communicate effectively in written, spoken, and graphical form about specific economic issues
- Formulate a well-organized written argument that states assumptions and hypotheses, which are supported by evidence
- Present an economic argument orally
- Present and synthesize a research work in front of various audiences (academic, professional, general audience)

BEHAVE PROFESSIONALLY AS AN ECONOMIST, INDIVIDUALLY AND COLLECTIVELY, IN VARIOUS ORGANIZATIONS AND THE WHOLE SOCIETY

- Be able to organize a research program in multiple ordered tasks for oneself
- Be able to work in a group and organize a research program in multiple ordered tasks for the group
- Have a global understanding of the organization of the profession, between academics and economists working in various non-academic organizations (firms, state agencies, international organizations, NGOs)
- Have a global understanding of the organization of the profession for discussing new ideas and research results (seminars, conferences, academic journals, etc.) and to diffuse them to a more general audience
- Behave ethically with regards to general principles of intellectual integrity, and transparency on tools, methods, and data used in specific research

A RICH AND DIVERSE RESEARCH ENVIRONMENT

The “Advanced Applied Economics” program benefits from the support of faculty members from the economic departments of both University of Caen Normandy and University of Rouen Normandy, two research centers, the Center for Research in Economics and Management (CREM, UMR CNRS 6211) and Laboratory for Economic studies Rouen Normandie (LERN, UR 4702), and the Normandy PhD program in Economics and Management (EGN, ED 242).

“Advanced Applied Economics” is an innovative and original project, where research and teaching are carefully combined to train a new generation of scientists with the aim of dealing with all the challenges of a world in crisis, capable of putting their knowledge of economics to work for citizens and policy makers.

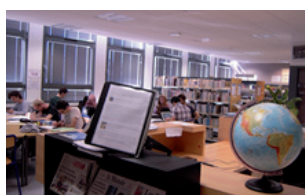
Our professors have published in a large variety of international journal for some among the top field.

In particular, the University of Caen Normandy maintains a strong tradition of fundamental research in economics as proof the well-known international scientific review Social Choice and Welfare which was founded some forty years ago by Professor Maurice Salles former member of our faculty. The Society for Social Choice and Welfare is still located in this University.



A dynamic student city

Caen is 2 hours from Paris by train and 15 kilometers from the seaside.



Large and renovated studying premises

Dedicated lecture rooms, computer facilities, academic libraries.



Numerous convenience academic facilities

University restaurants, Maisons de l'étudiant (Student multi-service centers), Language and international studies center, Espace orientation insertion (Studies and career guidance service), University physical and sporting activities service, etc.

A multi-disciplinary green campus

Integrated into the city.