



Specialisation “**Economics**”, pathway of Master 2

## AGRICULTURAL, ENVIRONMENTAL DEVELOPMENT ECONOMICS AND FOOD - ECODEVA

co-accredited with the University of Montpellier (UM) and the “Institut Agro” (Montpellier Supagro).  
This Master offers the possibility to pursue a research career (PhD studies).

MASTER OF SCIENCE

**ECONOMICS AND MANAGEMENT OF THE AGRICULTURAL, FOOD AND RURAL  
DEVELOPMENT**

### OBJECTIVE

This educational programme is preparing students to positions needing autonomy, individual enterprise capacities and knowledge in economic sciences. Focused on the transmission of fundamental theoretical and methodological knowledge (quantitative and qualitative), it values the use of advanced modelling techniques in current economic analysis, and the approaches of institutional economy, management sciences and economics sociology. This training enables the students to acquire extensive know-how in the fields of agri-food and natural resources management thanks to the specialization units offered. Prerequisite courses are organized in September.

### MASTER 2 PROGRAMME (60 ECTS)

**The training begins with a session of common courses enabling students to acquire the general thematic knowledge and the necessary methodological and theoretical bases before starting the more operational courses provided in the optional courses. It ends with seminars and the redaction and presentation of a research report.**

#### COURSE UNIT 1 - Theoretical courses

##### Unit 1: Economics and agricultural, food and rural policies

Objective: to make a synthesis of the main economics aspects of the agricultural and agri-food area and its management by the public policies.

##### Unit 2: Environment economics and policies

Objective: to enable students to get the basis of economic analysis of environmental and of natural resources management issues.

##### Unit 3: Development economics and policies

Objective: to develop the theories of economic development in the framework of agri-food and rural development. This course draws a parallel between contemporary problematics and theories.

##### Unit 4: Circular economy and food systems

Objective: to provide the theoretical foundations, the concepts and necessary methods to the understanding and analysis of the food system and its dynamic, in France and in the world.

### ORGANISATION

#### → Master 2 (Baccalaureat +5 years)

**Fifteen units** 45 ECTS

**Internship and report** 15 ECTS

This training programme is organized in partnership between the CIHEAM Montpellier, the UM and the “Institut Agro”.

#### → Master of Science (Baccalaureat +6 years)

**Master of Science thesis** 60 ECTS

### ADMISSION

Places are awarded on the basis of an application file reviewed by a commission composed of representatives of the co-accredited institutions. This course is open to economists or agronomists wishing to specialise in agricultural, environmental development economics and food.

The admission level is at least Baccalaureat +4 or a level allowing access to postgraduate studies. Prerequisites in economics are required.

Training fees amount to 3 527 € (excluding registration, travel and accommodation costs) for candidates who are not citizens from the CIHEAM member countries.

Candidates are selected on the basis of an application file: <http://candidature.iamm.fr>. The deadline for receipt of applications by post is **30 April 2021**.

### DEGREES

**Master 2** delivered by the CIHEAM Montpellier, the UM and the “Institut Agro”.

**Master of Science** of the CIHEAM

### SCHOLARSHIPS

It is possible for applicants coming from a CIHEAM member country to obtain scholarships covering living expenses and tuition fees.



## **COURSE UNIT 2 - Methodological courses : each student has to choose 3 units**

### **Unit 1: Applied econometrics**

Objective: to introduce students to a stochastic approach of complex phenomenon and to the use and processing of real data. More particularly, the course aims at leading students to carry out, by themselves, an empirical economic work through an individual project.

### **Unit 2: Modelling of the agricultural and environmental policies**

Objective: to master the mathematical programming techniques and know how to use them to develop optimization models.

### **Unit 3: Qualitative and quantitative methods**

Objective: to provide elements to economists who want to integrate a qualitative dimension in their future research work, through debates on field study matters.

### **Unit 4: Topic in experimental and behavioral economics**

Objective: to study the main themes of experimental economics focussing on social interactions. This course analyses the behaviour of economic agents.

### **Unit 5: Implementation of a Choice Experiment approach**

Objective: to present the Discrete Choice Experiment (DCE) methods, which have developed considerably in recent years, for the valuation of non-market benefits and costs. Notably, they help to reveal individual preferences and figure among the methods used to evaluate projects and public policies by determining the willingness to pay.

## **COURSE UNIT 3 - Theoretical courses**

### **Unit 1: New institutional economy**

Objective: to study the various trends of institutional economy (the "New institutional economy", the "Property Rights Theories", etc.), and to link them to the various objectives, research positions, hypothesis and methods used in the analysis of institutions.

### **Unit 2: Economic public calculation**

Objective: to provide to students the basis of public policies and some notions on the "theory of incentives".

### **Unit 3: Economical sociology and anthropology**

Objective: to present the origins and construction elements of the political economy, from both a scientific and a political point of view. This course also studies the main evolutions in the European and Anglo Saxon bodies, in the framework of the "great sharing" between economy and sociology, and provides some examples of debates, especially the one of the "New economic sociology".

### **Unit 4: Theoretical approaches in management sciences**

Objective: to introduce to students the theoretical approaches in management sciences with an overview of different fields of management. A specific focus is placed on organisational theory, strategy and consumer theories, linking them with subsequent courses (entrepreneurship, etc.).

## **COURSE UNIT 4 - Specialization courses: each student has to choose several units**

### **Unit 1: Consumers, food and sustainability**

Objective: to update knowledge on the debates about the sustainability of food systems, more specifically the questions of the contribution to the environment management and the social equity through a responsible consumption.

### **Unit 2: Institutions and development**

Objective: to present some of the important applications to the agricultural and agri-food sectors, to provide courses of institutional economy.

### **Unit 3: Coordination in the firms and agri-food chains**

Objective: to address coordination issues through the analysis of different cases that often raise questions about the food system sustainability (collective short supply chains, cooperatives, consumer participation in large-scale distribution, corporate social responsibility, etc.).

### **Unit 4: Information and environmental certifications**

Objective: to understand the economic behaviour of companies and consumers relative to environmental issues and in particular differentiation strategies within the scope of "green" products. To understand that the policy measures can be implemented by a regulator (state, government, administration). As environmental certification plays a key role in providing consumers with information on environmental quality, there is a particular focus on the interaction between market prices and certification in the transmission of information.

### **Unit 5: Economics of biodiversity and natural resources**

Objective: introduction to the economic analysis of the management of exhaustible natural resources (fossil fuels) and renewable resources (fisheries resources, forests).

## **COURSE UNIT 5 - Research seminars**

The students must choose 2 seminars out of the 4 that are proposed. These seminars deal with subjects related to researches from 3 teams involved in the Master (Mixed Research Units : MOISA, CEEM, Innovation) and can be oriented and developed to meet students specific needs for the preparation of their research master thesis.

### **Tutorials as guidelines to research process**

Objective: to prepare the students to the work that needs to be done during their research thesis. This class will enable each student to familiarize with the basic techniques related to a research work.

### **Research report and presentation**

The research report is the result of the student's personal work. Each student is supervised by a professor or a researcher involved in this Master. The main objective is to indicate the feasibility of a thesis project, insisting on the methods and tools of the selected discipline or disciplines. This work will be presented in front of a jury composed of the various disciplines part of the Master.

## **MASTER of science (60 ECTS)**

### **Master of Science of CIHEAM thesis**

Preparation and defence.

**CIHEAM Montpellier Scientific Coordinator**

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