

## **Master of Sciences – Sustainable Agriculture Management (SAM)**

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When you study Agriculture you work with problems and challenges linked to agricultural production as a human activity. The focus is on applied biology, but when developing new and more sustainable production systems and finding solutions to specific problems related to food, fibre and energy production you may include also environmental, social and economic aspects in your curriculum.

Students completing the MSc Sustainable Agriculture Management will help solve one of the largest global challenges of the 21st century: how to combine the increasing need for natural resources in agriculture with a sustainable management of nature and the environment.

The MSc Sustainable Agriculture Management enables you to identify, describe, analyse and suggest improvements to complex problem situations, related to our use of natural resources. You learn to apply your biological knowledge to find solutions which secures animal welfare and performance and environmentally sound production of food, feed and fibres.

As a student in Agriculture, you will apply basic biological knowledge when working with problems and challenges linked to food production as a human activity. Some of the questions you may work with are:

- How can we develop more sustainable production systems, e.g. can the impact of global meat production on the global climate be reduced, and how can individual farmers act to satisfy environmental demands?
- How may basic biological and ecological knowledge be applied in improvement of plant and animal performance, e.g. how important is good nutrition for keeping animals healthy, how do soil conditions affect plant growth and quality, can crop pests and diseases be controlled without pesticides or can new crop plants contribute to human welfare?
- Which potentials and risks are connected to new technologies in food production, e.g. GMOs?
- How may animal welfare of both production animals and companion animals be improved?
- How can we evaluate sustainability of farming systems, e.g. is organic agriculture better for

### ***Organisation***

**Duration : 2 years - ECTS : 120 credits**

**Bilingual Program (French and English) or Only in English**



1 <sup>st</sup> YEAR	1 <sup>st</sup> Semestre	Ects	2 <sup>nd</sup> Semestre	Ects
	SAM 311 - Agro-Ecosystem Analysis and Management	4	SAM 321 - Sustainable soil management	4
	SAM 312 - Landscape. Ecology and Biodiversity	4	SAM 322 - Analysis and Management of Sustainable Organic Production Chains	4
	SAM 313 - Group Development Workshop	4	SAM 323 - Analysis and Design of Organic Farming System	4
	SAM 314 - Agricultural Policy and Agro-Environmental Regulations	4	SAM 324 - Dissertation Methods	4
	SAM 315 - AgroEcology and Environment	4	Choose 1 major course	9
	SAM 316 - Plant Production Systems	4		
	SAM 317 - Nutrient Cycling and Environmental Effects	4		
	LAN 318 - Language	2	Internship of 3 Months	5
60 ECTS				

2 <sup>nd</sup> YEAR	3 <sup>rd</sup> Semestre	Ects	4 <sup>th</sup> Semestre	Ects
	SAM 411 - Integrated Natural Resource Management in Organic Agriculture	4	Internship of 6 Months	30
	SAM 412 - Biological Farming Systems	4		
	SAM 413 - Crop and Weed Ecology	4		
	Choose 1 major course	12		
	LAN 414 - Language	2		
60 ECTS				

Choose 1 major course from the following topics:

- Agriculture business management
- Agricultural Water Management for Enhanced Land and Water Productivity
- Agroforestry
- Wildlife Conservation and Management
- Sustainable Rural Development,
- Biodiversity, Ecosystem and Restoration Management

**Conditions to get the degree**

- Student must to follow regularly all the courses - He/She had to attend their class work, project; exams required in each course - He/She must to get at least 12/20
- Attend and realize Internships in company - Memory
- Student must get the TOEIC with 750 points or an equivalent in french

**Tuition fee**

**8700 euros per year**