VetAgro Sup Institute, France

Graduate program in Agricultural, Food and Environmental Sciences

November 2014

Vocational training (internship) periods
List of taught courses

1st year

5th semester (common core)

- General microbiology and food microbiology
- Introduction to engineer course
- Soil and fertility management, relationship soil-plant-atmosphere
- Crop systems and water management
- Farm animal feed and grassland management
- General economics
- Rural development policies and institutions
- General accounting, economic and financial analysis
- Student internship on a farm
- Husbandry systems, animal raising and lactation
- Student internship in agrifood companies
- Data gathering and management
- Project approach
- Personal development
- English language
- Second foreign language

6th semester (common core)

- Survey and oral communication
- Project approach
- Livestock management, animal breeding and animal pathology
- Food technology: food products and human nutrition
- Agrifood economics
- Enterprise management and decision making
- Data processing and statistics
- Ecology, plant protection and environment
- Student internship in agrifood companies
- Systemic approach on a farm
- Personal development
- Student internship on a farm
- Integrated risk management: quality, safety and environment
- English language
- Second foreign language
2nd year

7th semester (common core)
- Statistics - data analysis
- Human resources management and law
- Management control and accounting
- Spatial planning and rural development
- Food and agricultural policy
- Tillage and crop yield elaboration: agronomic equipment
- Genetics and biotechnologies
- IT project management, information systems and databases
- Food technology: intermediate food products
- Sustainable development
- Institutions and politics of agricultural development: application at departmental scale
- Agri-food supply chains
- English language
- Second foreign language
- Personal development
- Student internship on a farm
- Student internship in agrifood companies
- Organisation functioning and interpersonal relations

8th semester (pre optional modules)
Series 1* *Only one module to choose in a series
- Europe and rural development
- Intercultural approach in international relations
- Agricultural issues for tropical regions
- TRANS-FAIR - Rural development through local processing agricultural commodities into agrifood products, from global market to fair trade – taught in English

Series 2 * *Only one module to choose in a series
- Agriculture and environmental conservation
- Modelling and simulation applied to agroecological challenges
- Heritage and territorial development
- Local products, tradition and innovation
- Organic farming ... or Organic farmings ? – taught in English

Series 3* *Only one module to choose in a series
- Food, nutrition and human health
- Public college of Agriculture: course for civil servant students
- Implementation of international development projects
- Farm installation and rural entrepreneurship
- Ecology and forestry
- Cartography and Geographical Information Systems – taught in English

Series 4* *Only one module to choose in a series
- Diagnosis of an agronomical situation, plant breeding and crop protectionTerritory diagnosis and pastoralism
- From territory diagnosis to action strategy
- Introduction to agrifood system challenges: from consumers to companies
- Marketing orientation and business approach
- Grazing, animal welfare and behaviour
- Agronomy and plant breeding
- Grassland multifunctionality – taught in English

Student externship
- English language
3rd year specialization programs

**Agronomy, Vegetal Productions and Environment**
Agronomic diagnosis, sustainable systems of production, environment

**Livestock and farming systems**
Fodder systems, branch-product, breeding systems and environment

**Genomics, ecophysiology and vegetal productions**
Genetics, physiology, agronomy, experiment, innovation

**Marketing, agricultural and food markets**
Marketing, business, commercial management, firm

**Food, Innovation, Management Enterprise**
Agrifood, firm management, consumer, quality-product

**Agriculture, Environment, Territory**
Farm, agri-environment, multifunctionality

**Engineering of Territorial development**
Territorial development, carrying-out of projects, tourism, heritage, coordination of actors

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**Internationalization**

- International student mobility is compulsory for a minimum period of 2 months. It can be done through student internships and/or academic exchanges
- English language training and language skills assessment by TOEIC test
- Training programs taught in English
- Research programs in European and international scientific networks

Academic exchanges programs are developed with

- European universities (under Erasmus scheme)
- Universities in South America (from which Brazil under Sciences without borders program, Peru, Chile)
- Asian Universities: Thailand, Cambodia
- North American universities: Manitoba (Canada), Minnesota (USA)

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**Main research units**

- **CALITYSS**: Consumer – Typical food – Food Safety – Health
- **UMR 1213 Herbivores** (joint with INRA Institute): sustainable farming systems for herbivores that seek to reconcile production efficiency, product quality and socio-economic viability with environmental protection and valuation, and animal welfare.
- **UMR 1273 METAFORT** (AgroParisTech-Inra-Irstea-VetAgroSup): Changes in Land Use and Governance in Rural Area