

Our programme prepares students for a WIDE RANGE OF MISSIONS:

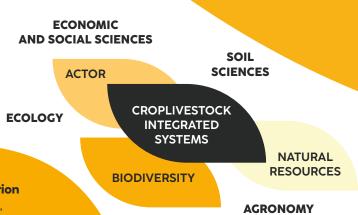
Rennes, FRANCE

- Emphasise positive interactions within agroecosystems in order to propose agroecological practices which encourage functional biodiversity and appropriate crop rotations and help the natural regulation of populations and the management of bioagressors,
- Manage soil quality and complete biogeochemical cycles by developing synergies between livestock farming and crops,
- Develop a systemic vision of agroecosystems to support, improve and increase farm sustainability,
- Evaluate farm sustainability through multicriteria assessment including biodiversity, natural resourcesand the society,
- Help farmers to evaluate the relevance of their practices and compare their practices to those from other farmers, and encourage farmers to design possible changes,
- Reflect and open up to new ideas while considering the goals, needs and interests of the stakeholders,
- Contribute to the development of transdisciplinary research in agroecology.

Join our AGROECOLOGY programme for 1 semester as an exchange student and get 30 ECTS!

Our Agricultural Engineering M.Sc. in AGROECOLOGY is based on a transdisciplinary approach of agroecosystems with a highlight on agronomical, ecological, environmental, economic and social issues.

Emphasis is given to the integration of disciplines focusing on crop-livestock integrated systems that value and preserve biodiversity.





TEACHING UNITS (TU)

TU 1. (2 ECTS) The challenges of Agroecology

TU 2. (3 ECTS)

Global socio-economical analysis

- Global socio-economical analysis
- Agroecology: economic approach and public policies

TU 3. (6 ECTS)

Theorical bases of agroecosystem functioning

- Biodiversity in agroecosystems
- Soil quality and ecosystem services
- Landscape management and biogeochemical flows
- Basics on animal science and livestock farming
- Ecological theories and biodiversity measurement

TU 4. (2 ECTS)

Sustainability,analysis of agroecological agroecosystems

- Farming systems sustainability assessment

TU 5. (6 ECTS)

Agroecosystem Management Levers in Agroecology

- Agroecological management
 - of forage resources
- Agroecological management of soil quality
- Agroecological management of plant health
- Plant breeding in agroecology

TU 6. (4 ECTS)

Plant, Soil, Animal interactions

- Plant, soil, animals interactions analysis
- Pasture model and scenarisation
- Agroecology consultancy

TU 7. (3 ECTS)

Statistical and spatial engineering tools

- Statistical tools for data processing
- Spatial analysis and GIS
- Modelling applied to agroecology

TU 8. (2 ECTS) Professional Project & Bibliographical Report

TU 9. (2 ECTS)

- English
- Languages
- German, Spanish, or Italian...

PROGRAMME FEATURES

- Individual and group-based learning
- Short projects on experimental sites and a transdisciplinary project on a real farm
- Active participation of professionals and scientific partners
- All courses in English

SUPPORT

- Single Welcome Desk
- Free French Language Courses
- Housing Support

Application Deadline

June 15th

Requirements

Bachelor's degree with a background in Agronomy, Crop science, Animal science, Soil science, Ecology, Economic and Social sciences. B2 level English proficiency.

More info & Registration

https://international.institut-agrorennes-angers.fr student.mobility@agrocampus-ouest.fr

Training Officials

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TEACHING STAFF

Plant Sciences applied to Agriculture and Horticulture

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Animal & Food Sciences

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& Society

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