

3.00 credits

30.0 h

Q1

Teacher(s)	Gerin Patrick ;Lambert Richard (coordinator) ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	Background in biology, ecology, plant science, soil science, climatology, economics, management (bachelor or Bioengineer).
Main themes	Critical analysis and in situ assessment of a range of agricultural activities (orchards, field crops, forage crops, cash crops) or peri-agricultural (forestry, hunting, waste management, food processing, renewable energy) starting from the agroecosystem to the industry level, through the prism of sustainability in its economic, social and environmental dimensions. Taking measure of the complexity of the work of the farmer or engineer and of key stages underlying the decision-making process. Analysis of the challenges and opportunities together with the innovations implemented by farmers to address them.
Learning outcomes	At the end of this learning unit, the student is able to : a. <u>Contribution of instruction with regards to the referential of leaning outcomes</u> M1.4, M1.5 M2.4, M2.5 M3.7 M4.3, M4.7 M6.5. M7.1. 1 b . <u>Specific formulation for this activity AA program (maximum 10)</u> At the end of this activity, the student is able to: ' Confront theoretical knowledge to the reality of the field. ' Mobilize knowledge to articulate pertinent questions dealing with current complex agricultural issues ' Use acquired knowledge and interaction with the industry to critically analyze the functioning of agricultural enterprises and their specific contexts. ' Diagnose complex situations and synthesize relevant recommendations in a summary report.
Evaluation methods	Report providing an analytical and critical look at the entities / companies / operations visited, in terms of resource use efficiency and environmental, economic and social impacts and / or written examination relating to knowledge and understanding of the entities / companies / farms visited
Teaching methods	Field visits, presentations from various professionals.
Content	The course consists of a weeklong series of visits to agricultural companies and various structures representative of agricultural activities that the students will analyze critically with respect to the dimensions of sustainability in an ad hoc report. Visited professionals present in detail their company structure, objectives and constraints. The student is therefore exposed to the realities of the field while interacting directly with the professionals. At the end of the visits a half-day long debriefing session is organized with the students.
Inline resources	Moodle
Bibliography	Certains chapitres du cours LBIRA 2109A et éventuellement des sources bibliographiques d'appui au rapport des visites à identifier par les étudiants eux-mêmes.
Other infos	This course can be given in English.
Faculty or entity in charge	AGRO

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Agricultural Bioengineering	BIRA2M	3		