UCLouvain

lbrai2110

2026

Elements of Agroecology

3.00 credits	30.0 h	Q1

Teacher(s)	Baret Philippe ;
Language :	English > French-friendly
Place of the course	Louvain-la-Neuve
Prerequisites	BIR 1230 - Engineering biosphere (or equivalent)
Main themes	- Emergence of the concept of Agroecology and historical process. - Diversity of world food systems. - Foresight approaches of Agriculture (Agrimonde, Afterres 2050) - The principles of agroecology: ecological, socio-economic and methodological principles. - Comparative approach for alternative agricultures: industrial agriculture, conventional farming, organic farming, sustainable agriculture, ecologically intensive agriculture. - Examples of applications of agroecology in production and consumption systems in North and South.
Learning outcomes	**At the end of this learning unit, the student is able to :** a. Contribution from operations AA repository program M1.1., M2.1., M4.4. b. Specific formulation for this activity AA program At the end of this course, the student is able to: 1 - Understand the conceptual foundations and methods of agroecology including the concept of food systems. - Discuss the diverse trajectories of agriculture - Evaluate a system in its agro-ecological dimensions - Position the various alternative modes of agriculture
Evaluation methods	The assessment will be based on group work (50%), participation during class (10%) and a written exam (40%).
Teaching methods	The course is taught in the form of lectures alternating between theory and concrete examples. Students will present their work on specific topics during student seminars. The course will be taught in English and students are encouraged to interact during class. They will be required to read selected publications before certain class sessions in order to function in a flipped classroom mode.
Faculty or entity in charge	AGRO

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Forests and Natural Areas Engineering	BIRF2M	3		
Master [120] in Agriculture and Bio-industries	SAIV2M	4		
Master [120] in Agricultural Bioengineering	BIRA2M	3		