Ecology

Module Information

2022.01, Approved

Summary Information

Module Code	6503YAUBIO
Formal Module Title	Ecology
Owning School	Biological and Environmental Sciences
Career	Undergraduate
Credits	10
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Yunnan Agricultural University

Learning Methods

Learning Method Type	Hours
Lecture	48

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-PAR	PAR	September	12 Weeks

Aims and Outcomes

Aims	Ecology is an applied science that studies the relationship between living things and their natural social environment. It mainly studies the structure, function, regulation and management of the ecosystem composed of organisms and their environment. The module aims to provide students with an understanding of the general knowledge, theories and methods of ecology; and provides the opportunity to apply the principles and methods of ecology to analyse the resources and ecological problems of the ecosystem and the ways of system optimisation.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Examine the structural and functional characteristics of the ecosystem, and to clarify the characteristics and interrelationships of the natural environment, artificial environment and biological components on the whole system.
MLO2	2	Explain the principles of ecology, and discuss the theory and technology of building efficient ecosystem.
MLO3	3	Examine the core of ecosystem biology, study the interaction and interaction rules between organisms and environment from individual, population and community level, and discuss the theory and technology of establishing reasonable biological structure.
MLO4	4	Analyse the three levels of ecosystem regulation, and discuss the regulation mechanism and technical points.
MLO5	5	Discuss the development track of agroecosystem, the classification and characteristics of agricultural resources, and the main ways of environmental pollution. Discuss the principle and main technology of ecological agriculture in China.

Module Content

Outline Syllabus	The main contents of the module include the structure of ecosystem, the function of ecosystem - energy flow, the logistics of ecosystem, the information and capital flow of ecosystem, resource utilisation and environmental protection, the ecological track of development, and ecological agriculture in China.
Module Overview	
Additional Information	The module is designed for students to study the structure, function, regulation and management of the ecosystem composed of organisms and their environment.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Exam	Exam	70	2	MLO1, MLO2, MLO3, MLO4, MLO5
Report	Test	10	0	MLO1, MLO2, MLO3, MLO4, MLO5
Exam	Exam	20	0	MLO1, MLO2, MLO3, MLO4, MLO5

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Katie Evans	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings