

BIOL C1705: Animal and Plant Biology

	University				
Module Title:		Animal and Plant Biology			
Language of Instruction:		English			
Credits:	5				
NFQ Level:	NFQ Level: 6				
Module Delivered In		4 programme(s)			
Teaching & Learning Strategies:		Formal lectures will be supplemented by laboratory work as individuals and where appropriate, in groups. The lecturer will balance the learning experience to ensure that the learner obtains knowledge through doing as well as through formal lecturers. This will allow them to understand the biological processes that underpin animal and plant systems. Case studies will be presented to demonstrate important biological processes as they apply to food production. Practical learning experiences will delivered through the use of field labs to demonstrate ecosystem biology as well as various dissection labs to demonstrate biological function in animals and plants. An emphasis will be placed on health and safety in biological studies throughout.			
Module Aim:		The module aims to provide the learner with a solid understanding of the biological process that underpin the function of animals and plants.			
Learning Ou	ıtcomes				
On successf	ul completion of th	his module the learner should be able to:			
LO1	Display knowledge of the principal biological processes in animals and plants				
		Be capable of understanding the microstructures of animal and plant cells			
LO2	Be capable of u	nderstanding the microstructures of animal and plant cells			
LO2 LO3	'	nderstanding the microstructures of animal and plant cells erstanding of the biology that underpins ecosystems in an agricultural context			
	Display an unde				
Pre-requisit	Display an unde				
Pre-requisit Module Rec This is prior i	Display an unde	erstanding of the biology that underpins ecosystems in an agricultural context			
Pre-requisit Module Rec This is prior I No recomme	Display an under	erstanding of the biology that underpins ecosystems in an agricultural context			
Pre-requisit Module Rec This is prior i No recomme Incompatibl These are m	Display an under	critical skill) that is recommended before enrolment in this module. The learning outcomes that are too similar to the learning outcomes of this module.			
Pre-requisit Module Rec This is prior i No recomme Incompatibl These are m	Display an under e learning ommendations learning (or a prace andations listed le Modules odules which have lible modules liste	critical skill) that is recommended before enrolment in this module. The learning outcomes that are too similar to the learning outcomes of this module.			

RequirementsThis is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.

No requirements listed



BIOL C1705: Animal and Plant Biology

Module Content & Assessment

Indicative Content

Animal and Plant Physiology

A detailed exploration of animals and plants at a cellular, tissue, organ and body level. Particular emphasis will be placed on plants and animals of agricultural importance including those of the wider farm ecosystem. Through a combination of classroom, lab and field based learning; the student will be exposed to: - Plants of agricultural and horticultural significance - Plants from the wider ecosystem including non-vascular plants and non-flowering vascular plants - Invertebrate animals including insects, molluscs, nematodes and segmented worms -Vertebrate animals including those used for food production

Ecosystem BiologyA detailed overview of animal and plant interactions within the farm systems and wider environment. Selected plants and animals will be used to demonstrate the wider ecosystem services of plants animals and the biodiversity of animal life in Ireland's terrestrial and aquatic environment. A typical mixed farm system will be used to demonstrate the flora and fauna that exist within the farm and how measures taken at farm level can have an impact on these. This will include a biological assessment of the soil, hedgerows and fresh water streams

Assessment Breakdown	%
Practical	50.00%
End of Module Formal Examination	50.00%

No Continuous Assessment

No Project

Practical				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Students will be expected to produce a one-to-two-page summary of their lab session summarising the importance of the topic covered, the methodology and outcomes. Sketches of the outcomes will be encouraged where appropriate. The report should be typed with sketches included as figures. It will be handed in a timely manner and general feedback will be given in subsequent lab sessions.	1,2,3	50.00	n/a

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Terminal Examination		50.00	End-of-Semester

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



BIOL C1705: Animal and Plant Biology

Module Workload

Workload: Full Time				
Workload Type	Frequency	Average Weekly Learner Workload		
Lecture	12 Weeks per Stage	1.50		
Laboratory	12 Weeks per Stage	1.50		
Independent Learning	12 Weeks per Stage	3.00		
	Total Hours	72.00		

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_SWOAG_B	Bachelor of Science (Honours) in Organic Agriculture	2	Mandatory
CW_SWSFM_B	Bachelor of Science (Honours) in Sustainable Farm Management and Agribusiness	2	Mandatory
CW_SWOAG_D	Bachelor of Science in Organic Agriculture	2	Mandatory
CW_SWSFM_D	Bachelor of Science in Sustainable Farm Management and Agribusiness	2	Mandatory