

BIOL C1705: Animal and Plant Biology

NFQ Level: 8 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 underprin 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 processes as they apply to food production. Practical learning experiences will delive through the use of field labs to demonstrate biological processes are they apply to food production. Practical learning experiences will delive the biological studies through out. Module Aim: The module aims to provide the learner with a solid understanding of the biological process that underprin the function of animals and plants. Learning Outcomes Display knowledge of the principal biological processes in animals and plants L02 Be capable of understanding the microstructures of animal and plant cells L03 Display an understanding of the biology that underprine ecosystems in an agricultural context Pre-requisite learning (or a practical skill) that is recommended before enrolment in this module. No recommendations listed Incompatible modules listed Co-requisi	Module Title:			Animal and Plant Biology		
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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 Biology A 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 on the farm.

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



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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