

SYST C2F03: Sustainable Cropping Systems

Module Title:		Sustainable Cropping Systems				
Language of Instruction:		English				
Credits: 5						
NFQ Level:	NFQ Level: 6					
Module Delivered In		4 programme(s)				
Teaching & Learning Strategies:		Formal lectures will be complemented by practical field sessions that allows for a balance of theory and hands on learning activities. Classroom activities will focus on the management of combinable crops and grassland including the economics of various crops that are grown in Ireland. Visiting lecturers will be used where appropriate to enhance the learning experience of the students and expose them to new concepts in crop production. Learners will brought to selected tillage and grassland farms in the South East to discuss the management concepts for crop production.				
Module Aim:		This module aims to build upon knowledge acquired during Year 1, specifically focusing on methods that can enhance the sustainability of crop production in Ireland. Students will learn how to critically assess various cropping options from an environmental and economic perspective.				
Learning Ou	itcomes					
On successf	ul completion of	his module the learner should be able to:				
LO1	Critically assess the economics of producing various cereal and break crops in Ireland					
LO2	Identification a	nd control of weeds in managed pasture and cropping systems				
LO3	Management of cereal and break crops including the strategic use of rotations to enhance the sustainability of crop production					
LO4	Application of r	utrient managements strategies to optimise sustainable crop production				
Pre-requisit	e learning					
	ommendations earning (or a pra	ctical skill) that is recommended before enrolment in this module.				
7844	FARM H17	17 Introduction to Crop Production				
<i>Incompatible Modules</i> These are modules which have learning outcomes that are too similar to the learning outcomes of this module.						
No incompatible modules listed						
Co-requisite Modules						
No Co-requisite modules listed						
Requirements This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.						
Students should have studied Introduction to Crop Production or an equivelant subject prior to this module.						



SYST C2F03: Sustainable Cropping Systems

Module Content & Assessment

Indicative Content							
Crop Rotations Why crop rotations are important. Soil, disease, environment, yield benefits							
Weed control Identification of common agricultural weeds. Knowledge of their life cycles. How to control common weeds.							
	crop production of the costs associated with crop production. Fertiliser, pesticides, machiner	y, seeds etc.					
Nutrient Mana Nutrients requi	gement red for sustainable crop production. Artifical and non - artificial fertilisers. Pla	nning of nutrient appl	lications.				
Assessment Breakdown			%				
Continuous Assessment			50.00%				
End of Module Formal Examination			50.00%				
Continuous A	ssessment						
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date			
Portfolio	Students will be required to gather samples of weeds from agricultural locations. The weeds will be identified and information relating to the weeds and their control will be gathered.	2	25.00	n/a			
Project	Students will complete an integrated cropping plan for a farm that includes the division of work load, economics of production and the use of rotations. This plan will be delivered through oral presentation to peers.	1,3,4	25.00	n/a			
No Project							
No Practical							
End of Module	PFormal Examination						
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date			
Formal Exam	An end of year exam will take place covering aspects of crop production delivered during the term	1,3,4	50.00	End-of- Semester			

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



SYST C2F03: Sustainable Cropping Systems

Module Workload

Workload: Full Time						
Workload Type	Frequency	Average Weekly Learner Workload				
Lecture	Every Week	2.00				
Practicals	Every Week	1.00				
Independent Learning	Every Week	3.00				
	Total Hours	6.00				

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_EFARG_B	Bachelor of Engineering (Honours) in Agricultural Systems Engineering	4	Mandatory
CW_EFARG_D	Bachelor of Engineering in Agricultural Systems Engineering	4	Mandatory
CW_SWSFM_B	Bachelor of Science (Honours) in Sustainable Farm Management and Agribusiness	4	Mandatory
CW_SWSFM_D	Bachelor of Science in Sustainable Farm Management and Agribusiness	4	Mandatory