

CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data						
Module Title	Emerging Issues in Agriculture					
Module Code	UILXK3-30-3		Level	3	Version	1
Owning Faculty	Hartpury		Field	Animal and Land Science		
Contributes towards	BSc (Hons) Agriculture, Conservation and Sustainable Management					
UWE Credit Rating	30	ECTS Credit Rating	15	Module Type	Standard	
Pre-requisites	None		Co- requisites	None		
Excluded Combinations	None		Module Entry requirements	None		
Valid From	01 September 2013		Valid to	01 September 2019		

CAP Approval Date 29 May 2013

Part 2: Learning and Teaching					
Learning Outcomes	On successful completion of this module students will be able to:				
	 Demonstrate an in-depth knowledge and understanding of a range of recent developments in agriculture (A, B) Critically evaluate a range of recent developments in agriculture for their long- term sustainability and/or contribution to food security (A). Assess the economics and practicality of a range of recent developments in agriculture (A, B). Communicate effectively technical information about areas of current agricultural research into innovative systems of production (A, B). Orally discuss selected developments in agricultural science in such a way as to enable understanding and engagement by academic, specialist and non-specialistaudiences (B). 				
Syllabus Outline	 Given that this module deals with current issues and developments, it is difficult to specify topics but the following subjects are likely to be covered: Precision agriculture using GIS, soil and yield mappings; Genome technology in crop and animal production; Spatial dimensions of rural development; Factory farming v free range: the influence of animal welfare; Commercial synthetic biology production and its threat to crops; Soil-less agriculture, the development of hydroponics and aeroponics; Alternative crops including fibre crops, energy crops and novel uses for traditional crops; Biofuel production from crops, algae and seaweed; Impact of climate change on food production. 				

Contact Hours	Indicative delivery	modes:				
	Lectures, guided I Self directed study Independent learn TOTAL		2	66 0 234 300		
Teaching and Learning Methods	 Scheduled Learning May include lectures, seminars, tutorials, workshops; external visits and speakers. It is in these sessions that the students will receive the theoretical underpinning knowledge pertaining to the module. Independent Learning May include hours engaged with essential reading, case study preparation, assignment preparation and completion. These sessions constitute an average time per level as indicated in the table below. Scheduled sessions may vary slightly depending on the module choices you make. Virtual Learning Environment (VLE) This module is supported by a VLE where students will be able to find all necessary module information. Direct links to information sources will also be provided from within the VLE. 					
Key Information Sets Information	Key Information Sets (KIS) are produced at programme level for all programmes that this module contributes to, which is a requirement set by HESA/HEFCE. KIS are comparable sets of standardised information about undergraduate courses allowing prospective students to compare and contrast between programmes they are interested in applying for.					
	Key Information	Set – Module Data	<u>a</u>			
	Number of credits for this module 30				30	
	Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours	
	300	66	234	0	300	
	 The table below indicates as a percentage the total assessment of the module which constitutes a: 1 Written Exam: Unseen written exam, open book written exam, in-class test. 2 Coursework: Written assignment or essay, report, dissertation, portfolio, project. 3 Practical Exam: Oral Assessment and/or presentation, practical skills assessment, practical exam. 					
	Please note that this is the total of various types of assessment and will not necessarily reflect the component and module weightings in the Assessment section of this module description:					
	Total assessment of the module:					
	Written exam assessment percentage70%Coursework assessment percentage0%Practical exam assessment percentage30%100%					

Reading Strategy	 <i>Essential Reading</i> It is essential that students read one of the many texts on research methods available through the Library. Module guides will also reflect the range of reading to be carried or <i>Further Reading</i> Students are expected to identify all other reading relevant to their chosen research top for themselves. They will be encouraged to read widely using the library catalogue, a variety of bibliographic and full text databases, and Internet resources. Many resources can be accessed remotely. <i>Access and Skills</i> Formal opportunities for students to develop their library and information skills are provided within the induction period and student skills sessions. Additional support is available through online resources. This includes interactive tutorials on finding books and journals, evaluation information and referencing. Sign up workshops are also offered. 				
Indicative Reading List	The following list is offered to provide validation panels/accrediting bodies with an indication of the type and level of information students may be expected to consult. As such, its currency may wane during the life span of the module specification. However, as indicated above, CURRENT advice on readings will be available via other more frequently updated mechanisms, including the module guide.				
	 BCPC (Current Edition) <i>Biological control introductions: opportunities for improved crop production.</i> British Crop Protection Council. Dragun, A.K. and Tisdell, C., eds. (Current Edition) <i>Sustainable agriculture and environment: globalisation and impact of trade liberalisation.</i> Cheltenham: Edward Elgar. Harris, D. (Current Edition) <i>The illustrated guide to hydroponics.</i> London: New Holland Press. Morgan, M. and Ess, D. (Current Edition) <i>The precision farming guide for agriculturalists.</i> Illinois: John Deere. National Research Council (Current Edition) <i>Precision agriculture in the 21st century – geospatial and information technologies in crop management.</i> National 				
	 Academy Press. NRC (Current Edition) Precision agriculture in the 21st century. <i>Geospatial and information technologies in crop management</i>. Washington DC: National Academy Press. Pinstrup-Anderson, P and Schioler, E. (Current Edition) Seeds of contention. World hunger and global controversy over GM crops. Roling, N. G. and Wagemakers, M. A. E., eds. (Current Edition) Facilitating sustainable agriculture. Cambridge: Cambridge University Press. 				
	Journals:1Agricultural Systems2Current Advances in Genetics and Molecular Biology3Experimental Agriculture4Aspects of Applied Biology5Trends in Biotechnology				

	Part 3:	Assessment				
Assessment Strategy	The assessment strategy will include an open book written examination and an oral examination, both of which will be held in the end of semester assessment period, but with the oral examination following the written examination.					
	This strategy has been chosen to enable students to research the topics presented in the lecture series more widely and bring the evidence of that research into a controlled conditions written examination where they can construct critically evaluative answers to the questions posed. The duration of the exam gives students sufficient time to incorporate the knowledge they have acquired into a critically evaluative narrative. The oral examination also allows students to be critically evaluative but communicate their evaluation in a different format. This format also allows for self-reflection as an evaluative tool, not only in relation to the lecture series content, but in the students own approach to researching the lecture content, which is why it is important that the oral examination follows the written examination.					
	Opportunities for formative assessment and feedback will occur during Q&A sessions in the lecture series and also in a review session at the end of the lecture series. The oral examination provides an opportunity for some general feedback on the written examination, to enable the student to self-reflect their approach to that examination.					
	In line with the College's commitment to facilitating equal opportunities, a student may apply for alternative means of assessment if appropriate. Each application will be considered on an individual basis taking into account learning and assessment needs. For further information regarding this please refer to VLE.					
Identify final asse	ssment component and element	Oral examination.				
% weighting bet	ween components A and B (Stan	dard modules only)	A:	В:		
			70%	30%		
First Sit						
Component A (controlled conditions) Description of each element		Element weighting				
1 Open Book Written Examination (2.5 hours)		100%				
Component B Description of each element		Element weighting				
1 Oral Examination (20 minutes)			100%			
Resit (further att	endance at taught classes is not	t required)				
Component A (or Description of each of the section	controlled conditions) ach element		Element v	veighting		
1 Open Book Written Examination (2.5 hours)			100%			
Component B Description of each element		Element weighting				
1 Oral Exa	Oral Examination (20 minutes)			100%		
	mitted an EXCEPTIONAL RETAK					

the Module Description at the time that retake commences.