

Module Overview									
Module Title	Managing Global Soils in a Changing Climate								
Module Code	4727	Module Type	Taught Module						
School	School of Agriculture, Food and the Environment								
Module Leader	Felicity Crotty								
Location	Cirencester	Semester	Semester 2 (RAU)						
FHEQ Level	Level 7	Credits	15 credits						
QAA Subject Benchmark Statement		No relevant statement							
with tackling two key challenges facing humanity: climate change and soil degradation leading to food insecurity. The module starts by tackling the issue of degraded soils and highlighting potential solutions to restore soils back to health. The key soil processes are discussed with particular emphasis on the role of soil biodiversity. The risks posed by climate change to soils in many parts of the world are discussed with a particular focus on water scarcity. Possible adaptation solutions aimed at the long-term sustainable use of soils in the context of climate change are discussed.									
Intended Learning Outcomes									
ILO1	Critically appraise and propose sustainable solutions and priorities for soil management in the face of uncertainties.								
ILO2	Based on the latest, sometimes conflicting evidence, analyse the potential for global soils to sequester carbon and thus mitigate climate change.								
ILO3	Evaluate how the management of soils can help agriculture adapt to the risks and unpredictability of climate change, whilst providing more immediate benefits to soil sustainability.								
Learning, Teaching and Assessment									
Approach to Learning and Teaching									
This module inclu	ides lectures and semina	ars. Each week focuss	ses on a particular						

This module includes lectures and seminars. Each week focusses on a particular topic, which is first introduced in the online lecture and discussed in the seminar. The associated weekly seminar then focusses on a key aspect of the topic in more

detail and will generally be student-led, with group tasks, discussions and activities (e.g. presentations).

Approach to Assessment

A single element of assessment will be required in the form of a report up to 3000 words. The essay format allows the student to argue a case bringing in relevant information from both the module contents and reading around the topic. It is the perfect means of testing critical analysis and argumentation building including dealing with uncertainty and complexity.

Scheduled Learning and Teaching Hours (seminars)							24					
Scheduled Learning and Teaching Hours (field-based)						0						
Scheduled Learning and Teaching Hours (lab-based)						0						
Scheduled Learning and Teaching Hours (computer-based)						0						
Scheduled Learning and Teaching Hours (online learning)						12						
Independent Study Hours						114						
Placement Learning Hours						0						
Total Study Hours						150						
Assessment Components												
Component	Туре	Weight	Acc' Req?	Submission Week	ILOs Assessed 1 2 3 4 5							
Essay (3000 words)	Coursework	100%		Week 35		\boxtimes						
Associated Programmes												
Programme Title						Designation						
MSc Sustainable Agriculture and Food Security						Core						
MSc Agricultural Technology and Innovation						Optional						
Resources												
Reading list <u>https://rau.rl.talis.com/index.html</u>												