

Module specification

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Module Code	ANM527
Module Title	Climate Change and Conservation
Level	5
Credit value	20
Faculty	FSLS
HECoS Code	101070, 101318, 100379
Cost Code	GAAN

Programmes in which module to be offered

Programme title	Is the module core or option for this programme
FdSc Practical Wildlife Management	Core

Pre-requisites

N/A

Breakdown of module hours

Learning and teaching hours	30 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	0 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
Total active learning and teaching hours	30 hrs
Placement / work based learning	0 hrs
Guided independent study	170 hrs
Module duration (total hours)	200 hrs

For office use only	
Initial approval date	12/05/2022
With effect from date	September 2023

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Date and details of revision	
Version number	1

Module aims

This module aims to introduce students to natural and anthropogenic changes in the climate and the science of current climate change. Students will be able to identify how climate change will affect biomes, habitats and species worldwide and learn how global efforts to combat climate change are being implemented.

Module Learning Outcomes - at the end of this module, students will be able to:

1	Demonstrate natural and anthropogenic causes of climate change
2	Analyse changes to biomes, habitats, and species distribution
3	Critically evaluate global efforts to combat climate change

Assessment

Indicative Assessment Tasks:

This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

Assessment 1: Coursework: Design learning materials (with teacher's guide) for year 7 students that demonstrate natural and anthropogenic causes of climate change (1000 word equivalent)

Assessment 2: Group project: Video blog highlighting changes in biodiversity and possible solutions to climate change (15 minutes)

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1	Coursework	40
2	2, 3	Group Project	60

Derogations

N/A

Learning and Teaching Strategies

A blended format will be utilised to deliver this module. An active and inclusive learning environment aligned to Universities ALF will enable flexible, accessible, and individualised learning opportunities for students. This approach will include both synchronous and asynchronous learning. Practical sessions and workshops will enable students to implement theory in practice. Assessments will take place midpoint and at the end of the module.

Indicative Syllabus Outline

Natural fluctuations; historical pattern of global warming and cooling. Current increases in global temperature, rainfall, storm intensity, sea temperature, sea level increase, melting sea ice, predicted rises and changes. Anthropogenic factors that have caused recent changes in the climate; burning fossil fuels, agriculture, deforestation, cement production

Decreasing regions of snow, ice, and permafrost. Areas of food production move and reduce. Habitat decline; coral reef, salt marsh, mudflats, wetlands, coastal, peat and soil erosion. Loss of spawning grounds, prey, shifting distribution and migration patterns, disruption to hibernation, changes to flowering times. Non-native species favoured by new conditions.

COP26, 2015 Paris Agreement, Kyoto Protocol, green economy, low-carbon economy, sustainability, reducing carbon emissions, carbon off-setting, renewable energy, carbon absorption, reduction in meat intake, changing farming practices, reduction in consumption

Indicative Bibliography:

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads

Dessler, D. E. (2019), *The Science and Politics of Global Climate Change: A Guide to the Debate*. Cambridge: Cambridge University Press.

Other indicative reading

Hampshire-Waugh, M (2021), *Climate change and the road to NET-ZERO: Science, Technology, Economics, Politics*. London: Crowstone Publishing.

Beebee, T. (2018), *Climate Change and British Wildlife (British Wildlife Collection)*. London: Bloomsbury Publishing Plc.

Hanson, A. (2022), *Hurricane Lizards and Plastic Squid: How the Natural World is Adapting to Climate Change*. London: Icon Books.

Employability skills – the Glyndŵr Graduate

Each module and programme is designed to cover core Glyndŵr Graduate Attributes with the aim that each Graduate will leave Glyndŵr having achieved key employability skills as part of their study. The following attributes will be covered within this module either through the content or as part of the assessment. The programme is designed to cover all attributes and each module may cover different areas.

Core Attributes

Engaged
Enterprising
Creative
Ethical

Key Attitudes

Commitment
Curiosity
Resilience
Confidence
Adaptability

Practical Skillsets

Digital Fluency
Organisation
Leadership and Team working
Critical Thinking
Emotional Intelligence
Communication