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Refer to guidance notes for completion of each section of the specification.

Module Code:	ANM422
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Module Title:	Introduction to Environmental Issues
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Level:	4	Credit Value:	20
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Cost Centre(s):	GAAN	HECoS code:	100381
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Faculty:	Social & Life Sciences	Module Leader:	Denise Yorke
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Scheduled learning and teaching hours	36 hrs
Total contact hours	36 hrs
Guided independent study	164 hrs
Module duration (total hours)	200 hrs

Programme(s) in which to be offered (not including exit awards)	Core	Option
Standalone module (Attached to FdSc Animal Behaviour, Welfare and Conservation)	<input type="checkbox"/>	<input type="checkbox"/>

Pre-requisites
None

Office use only	
Initial approval: 05/08/2020	Version no: 1
With effect from: 01/09/2020	
Date and details of revision:	Version no:

Module Aims

- 1) Introduction to the environment and earth's physical systems
- 2) Introduction to environmental changes past, present and future
- 3) Introduction to the factors that cause environmental changes

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

- | | |
|---|---|
| 1 | Identify the earth's physical systems |
| 2 | Describe environmental changes past, present and future |
| 3 | Recognise the factors that cause environmental changes |

Employability Skills The Wrexham Glyndŵr Graduate	I = included in module content A = included in module assessment N/A = not applicable
<i>Guidance: complete the matrix to indicate which of the following are included in the module content and/or assessment in alignment with the matrix provided in the programme specification.</i>	
CORE ATTRIBUTES	
Engaged	IA
Creative	I
Enterprising	I
Ethical	IA
KEY ATTITUDES	
Commitment	I
Curiosity	I
Resilient	I
Confidence	I
Adaptability	IA
PRACTICAL SKILLSETS	
Digital fluency	IA
Organisation	IA
Leadership and team working	I
Critical thinking	IA
Emotional intelligence	IA
Communication	IA
Derogations	
N/A	

Assessment:

Indicative Assessment Tasks:

Multiple choice questions (online based assessment) - which will include questions relating to the earth's physical systems.

Coursework (online) - students will work individually to answer questions on a range factors that cause environmental changes. (1000 words)

Coursework will be synchronous.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1 & 2	Multiple Choice Questions	50
2	3	Coursework	50

Learning and Teaching Strategies:

The module will include a range of learning and teaching techniques including formal online lectures, seminars and quizzes.

Syllabus outline:

Earth's physical systems: nitrogen, phosphorus, carbon, water cycles, food chains, webs and trophic levels

Autotrophic & heterotrophic nutrition

Climate and Biomes

Environmental changes past: past ice-ages, mass extinctions, evolution and continental drift

Environmental changes present: melting ice caps, sea level rise, sea warming and acidification, flooding, changing weather patterns, loss of biodiversity

Environmental changes future: warmer global temperatures, redistribution of global populations

Human practices: global pollution, climate change, toxic emissions, local pollution

Alien introductions: plants and animals

Overharvesting: marine, mammals, plants

Habitat loss: agriculture, food production, urbanisation

Habitat fragmentation: agriculture, food production, urbanisation

Population growth: past, present and future predictions

Indicative Bibliography:

Essential reading

Genn, R. (2018) *Environmental Science. Insight & Perspective*

Other indicative reading

Armstrong, J. M. (2020) *The Future of Energy: 2020 Edition*. Kindle Edition

Berners-Lee, M (2019) *There Is No Planet B: A Handbook for the Make or Break Years*. Cambridge University Press

Carson, R. (2000) *Silent spring*. Penguin Classics; New Ed edition

Maslin, M. (2014) *Climate Change: A Very Short Introduction (Very Short Introductions)*. Oxford University Press

Smart, B (2010) *Consumer Society: Critical Issues & Environmental Consequences*. SAGE Publications Ltd

Reference may be made to contemporary research articles and other journal resources such as:

- Science, Nature, Ecology, Earth Sciences