

Module Code	ACNA4007
Title	Physical Landscape and the Geosphere
Date	08/08/2023
Level	4
Credits	20
Pre-Requisites	None

AIM(S)

- To introduce students to how the Earth's lithosphere, hydrosphere, cryosphere, atmosphere and biosphere are dependent upon each other, interacting across a wide range of temporal and spatial scales. It will be stressed that the environment is dynamic and that the world is changing in accordance with known physical principles.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- Express an understanding of Earth systems and their influence on the environment.
- Establish an understanding of the physical processes that influence the environment
- Complete practical fieldwork on a selected physical landscape.

INDICATIVE CONTENT

- Global Meteorology and circulatory systems
- Hydrological cycles and atmospheric moisture
- Geological environmental change
- Plate tectonics
- Lithospheric systems
- The fundamentals of weathering & erosion
- Slope processes and management
- Fluvio-glacial, glacial and periglacial processes and landforms
- Coastal geomorphology and Oceanography
- The formation and classification of soils
- Physical landscape fieldwork
- The physical landscape and human influences

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning		
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Field Report	2000 words	50%

Assessment Component 2

(Tick one)

☒ Written exam ☐ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Examination	2 hours	50%

Assessment Summary

Activity type	Percentage
Written exam	50%
Coursework	50%
Practical	
TOTAL	100%

INDICATIVE READING LIST

Module Code	ACNA4007	
Module Title	Physical Landscape and the Geosphere	
Classification	Reading List entry	Electronic*
Essential	Gervais, B. (2019) <i>Living Physical Geography</i> . Blackwell's	☒
Essential	Holden, J. (Ed.) (2017) <i>An Introduction to Physical Geography and the Environment</i> . Pearson, London	☒
Essential	Knoll, A. H. (2015) <i>Life on a Young Planet: The First Three Billion Years of Evolution on Earth</i> . Princeton University Press, USA	☒
Further	Huggett, R. (2009) <i>Physical Geography: The Key Concepts</i> . Routledge, Abingdon, Oxon	☒
Further	Goudie, A. (2018) (8th Edition) <i>The Human Impact on the Natural Environment</i> . Wiley-Blackwell, Chichester	☒
Further	Melières, M, and Marechal, C. (2015) <i>Climate Change: Past, Present, and Future</i> . Wiley-Blackwell, London	☒
Further	Petersen, J., Sack, D., Gabler, R. (2021) <i>Physical Geography</i> . Blackwell's	☐
Further	Pierzynski, G. M. and Sims, T. (2004) (3rd Edition) <i>Soils and Environmental Quality</i> . Taylor and Francis, London	☐
Further	Strahler, A. (2013)(6th Edition) <i>Introducing Physical Geography</i> . Wiley, Oxon	☐

Further	Tarbuck, E. J., Lutgens, F.K. and Tasa D G (2015). <i>Earth Science (Global Edition)</i> . Pearson, Cambridge	☐
Further	www.bgs.ac.uk (British Geological Survey)	☐
Further	www.nerc-bas.ac.uk (British Antarctica Survey)	☐