

Liverpool John Moores University

Title: Geographical and Ecological Principles of Outdoor Education
Status: Definitive
Code: **4015OUTDOR** (117689)
Version Start Date: 01-08-2017

Owning School/Faculty: Sports Studies, Leisure and Nutrition
Teaching School/Faculty: Sports Studies, Leisure and Nutrition

Team	Leader
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Academic Level: FHEQ4 **Credit Value:** 24 **Total Delivered Hours:** 49

Total Learning Hours: 240 **Private Study:** 191

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	30
Off Site	12
Online	4
Tutorial	2

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	Asst 1	Essay (2000 words)	30	
Exam	Asst 2	On-line exam 1(hr)	20	1
Report	Asst 3	Field report (3000 words)	50	

Aims

To provide a conceptual framework linking the Earth, its evolution and geological processes, to the atmosphere, hydrosphere and biosphere. To provide a sound basis for planning and execution of fieldwork in ecology and geography as relevant

to Outdoor Education.

Learning Outcomes

After completing the module the student should be able to:

- 1 understand the evolution and geological processes on Earth and how they link to the hydrosphere, biosphere and atmosphere
- 2 understand about environmental change in the atmosphere, hydrosphere, biosphere and how it can be measured
- 3 plan and execute local field investigations and report the findings in a scientifically rigorous way.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Essay (2000 words)	1
On-line exam 1(hr)	2
Field report (3000 words)	3

Outline Syllabus

Origin of the Universe, stars and galaxies. Origin and position of planet Earth, the early atmosphere and the origin of life. The Earth's interior and the energy sources of Earth processes. Continental drift and plate tectonic processes. Rock formation, classification and identification, including volcanic, sedimentary and metamorphic processes. Geological history and rock deformation. Weather and climate. Atmospheric composition and energy. Water in the atmosphere. Key concepts in ecology and biogeography. The study of ecosystems, the ecological niche; communities and succession; distribution of organisms in a habitat, including environmental factors; energy and nutrient cycles in ecosystems; populations; human influences and biodiversity, disturbed ecosystems; vegetation zonation in mountains; environmental change over time. The soil system and its components. Atmospheric motion. Air masses. Fronts and depressions. Mountain weather and climate. Urban, forest and coastal climates. Classification of work climates. Climatic change and atmospheric pollution. Fieldwork planning. Safety in fieldwork. Execution of practical investigations in fieldwork.

Learning Activities

Lectures, workshops, weekly on-line self assessment questions, viewing DVDs with questions/worksheets, Powerpoint slides, practical fieldwork in ecology, soil and microclimatology, tutorials, private study using web based learning resources.

Notes

This module provides students with a conceptual framework linking the Earth, its evolution and geological processes, to the atmosphere, hydrosphere and biosphere. It provides a sound basis for planning and execution of fieldwork in ecology and geography as relevant to Outdoor Education.