

Liverpool John Moores University

Title: EARTH SURFACE PROCESSES
Status: Definitive
Code: **5202OUTDOR** (104234)
Version Start Date: 01-08-2016

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

Team	Leader
Barry Forrester	Y

Academic Level: FHEQ5
Credit Value: 12
Total Delivered Hours: 45
Total Learning Hours: 120
Private Study: 75

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	25
Off Site	10
Practical	9

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination: 34% Examination 1(hr)	34	1
Report	AS2	Coursework: 33% Coursework Fieldwork project - 1000 words	33	
Report	AS3	Coursework: 33% Coursework Essay - 1000 words	33	

Aims

To provide an understanding of soil, hydrological and geomorphological processes that shape the British landscape.

Learning Outcomes

After completing the module the student should be able to:

- 1 evaluate the physical and time controls on geomorphic processes and systems;
- 2 summarise how geomorphic processes in mountains have created landforms and shaped the landscape;
- 3 describe the origin of slope, fluvial, glacial and periglacial land forms and sediments;
- 4 synthesise the interactions between the components of the hydrological and soil systems;

Learning Outcomes of Assessments

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

EXAM	1	2	3	4
Fieldwork	1	2	3	
Essay	1	2	3	

Outline Syllabus

The importance of process, time and climate in geomorphic systems. Weathering processes. Slope development in mountains, including toppling and slab failure, rockfall and scree development, rock and snow avalanches. Periglacial processes, including freeze-thaw, gelifluction, ground ice formation, tor development, nivation. Hydrological systems, including the water cycle, throughflow, overland flow and groundwater. Drainage basins, fluvial processes and landscapes. Glacial processes, including erosion, debris entrainment, depositional processes, braided proglacial sandurs, subglacial eskers, englacial eskers, kames, stagnant ice processes.

Learning Activities

Lectures, fieldwork, practical activities, on-line resources.

Notes

This module provides students with the knowledge and skills to evaluate the impact of the various hydrological and geomorphic processes on the creation of the British Landscape.