

Liverpool John Moores University

Title: COLD ENVIRONMENTS: PROCESSES AND CHANGE
Status: Definitive
Code: **6118NATSCI** (124945)
Version Start Date: 01-08-2019

Owning School/Faculty: Natural Sciences & Psychology
Teaching School/Faculty: Natural Sciences & Psychology

Team	Leader
Tim Lane	Y

Academic Level: FHEQ6 **Credit Value:** 24 **Total Delivered Hours:** 69

Total Learning Hours: 240 **Private Study:** 171

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Off Site	66
Seminar	3

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	Pres	Field presentation on data collected during fieldtrip and personal synthesis of observations.	60	
Report	Sci Report	Scientific summary report on a project undertaken during the fieldtrip.	40	

Aims

- To provide students with an opportunity to apply knowledge and skills gained in previous lecture-based modules to a new geographical setting, by carrying out detailed data-collection.

- *To critically evaluate the importance of field-based observations and analyses within the context of the wider literature.*
- *To develop a wide range of transferable skills in measurement technique, research design, effective communication, and group work.*

Learning Outcomes

After completing the module the student should be able to:

- 1 Collect, organise, and analyse a wide variety of field-based data using appropriately designed methodologies to formulate and solve geographical research questions.
- 2 Combine field observations with published research findings to produce fully synthesized answers to specific geographical problems
- 3 Critically synthesize and communicate contemporary environmental ideas to a diverse audience.

Learning Outcomes of Assessments

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

Field Presentation and debate	1	3
Scientific Report	2	3

Outline Syllabus

A wide range of topics will be covered during the trip which are likely to include: glacial geomorphology, glacial sedimentology, relative dating techniques, proglacial hydrology, coastal processes, volcanology, snow pack properties, geohazards, economic geography, landscape development. The trip will also include an extended stay in a field centre in which students will develop transferable personal and interpersonal skills, and a full academic understand of the location.

Learning Activities

The core of this modules is based on a residential field course to Iceland and focuses on the collection of data using robust field skills, and the interpretation of this data within the wider geographical context both in the field and in published literature.

Information during the field trip will be delivered through a number of field lectures, demonstrations of data collection methods and other site visits. Students are required to take notes during field visits, and evenings will be used to review the day's work and plan for the next day. Students will complete an independent group research project during the last 2 days of the field trip, communicating their findings to the cohort at the end of the trip.

Notes

This module is based on an international field trip. It is a detailed field skills module. Students are encouraged to undertake independent observations and interpretations and reflect upon them in relation to published work. There is an additional charge for this fieldtrip to cover the cost of accommodation.