

Liverpool John Moores University

Title: CAVING & KARST LANDSCAPES
Status: Definitive
Code: **5201OUTDOR** (104233)
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: 40
Total Learning Hours: 120
Private Study: 80

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	9
Off Site	30

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination: examination	34	1
Portfolio	AS2	Coursework: Field Project 1 (1000 words)	33	
Portfolio	AS3	Coursework: Field Project 2 (1000 words)	33	

Aims

To provide students with the practical and safety skills in caving to undertake cave leadership. To provide the scientific knowledge to understand how caves are forming today and have formed in the past.

Learning Outcomes

After completing the module the student should be able to:

- 1 travel safely in both caves and potholes and understand the safety considerations behind such travel;
- 2 demonstrate a knowledge of the potential of caving as an outdoor pursuit activity and be able to lead small groups in caves;
- 3 implement cave conservation policies;
- 4 understand how caves are formed; be able to synthesise the relationships between surface limestone landscapes and the underground development of cave systems;
- 5 synthesise the past and current geological processes involved in the development of karst landscapes.

Learning Outcomes of Assessments

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

EXAM	1	2	3	4	5
Portfolio	1	2	3	4	5
Portfolio	5				

Outline Syllabus

Geological evolution of the Yorkshire Dales landscape. Depositional environments of limestones, Yoredales and Millstone Grit. Geomorphology of karst processes, including weathering of limestones; hydrology in karst areas, development of karren, pavements and glacio-karst landforms, development of cave systems (phreatic and vadose systems), flowstone formation, cave sedimentation. Practical caving and pot holing skills, including laddering, single rope techniques, surveying, cave leadership styles and planning of cave trips. Caving hazards, clothing and equipment and the importance of safety considerations.

Learning Activities

Lectures, field work, practical caving.

Notes

This module will give students knowledge of how the Yorkshire dales landscape has evolved, how caves fit into that landscape and continue to form and give them an understanding of karst processes. It will give students the ability to use the cave environment in Outdoor Education and to conserve that environment.

