

Liverpool John Moores University

Title: OVERSEAS FIELD EXPERIENCE

Status: Definitive

Code: **7118NATSCI** (125685)

Version Start Date: 01-08-2020

Owning School/Faculty: Biological and Environmental Sciences

Teaching School/Faculty: Biological and Environmental Sciences

Team	Leader
Margarita Mulero Pazmany	Y

Academic Level:	FHEQ7	Credit Value:	20	Total Delivered Hours:	80
Total Learning Hours:	200	Private Study:	120		

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	2
Off Site	70
Practical	5
Workshop	3

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	Report	Proposal for field study project	35	
Report	Report	Final report on field study	65	

Aims

To acquire and analyse drone data related to an environmental science topic in an overseas field setting.

Learning Outcomes

After completing the module the student should be able to:

- 1 Identify an environmental science topic which would benefit from using drone data within the timeframe of the overseas field trip.
- 2 Demonstrate knowledge and understanding of some of the key issues of an environmental science topic
- 3 Safely and successfully plan and execute a drone data acquisition flight to enable study of an environmental science topic
- 4 Process drone data and use these data alone or in conjunction with other data to add to knowledge on an environmental science topic
- 5 Concisely describe and critique, using written communication, the current state of an environmental science issue and how drone data can help to advance knowledge.

Learning Outcomes of Assessments

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

Project proposal report	1	2		
Field study report	2	3	4	5

Outline Syllabus

Introduction to environmental science topics in an overseas settings (local and regional).

Introduction to overseas drone project assessment.

Introduction to field setting and drone flight restrictions.

Physical environmental processes and climate-related impacts (past, present, future) relevant to the field site and projects.

Field observations and measurement tools and techniques.

Local and regional governance and management practices related to an environmental science topic.

Drone data collection exercises and processing.

Learning Activities

On-the-ground field activities including field-based experiential learning, field observation and environmental data collection techniques (beyond drone data). Discussion and reflection and self-guided reading. Lecture, practical and workshop sessions in the UK are employed to introduce the field trip and the drone project assessment and support the completion of projects. Lecture, seminar and workshop sessions in the field are employed to develop learning and support data capture and processing.

Notes

Students will be expected to propose a project, plan and execute a drone flight to capture relevant data, perform data processing, and write a short report.