

## Liverpool John Moores University

Title: CLIMATE CHANGE FROM A SCIENTIFIC AND HUMAN PERSPECTIVE  
Status: Definitive  
Code: **7123NATSCI** (129003)  
Version Start Date: 01-08-2021

Owning School/Faculty: Biological and Environmental Sciences  
Teaching School/Faculty: Biological and Environmental Sciences

Team	Leader
Laura Edwards	Y

**Academic Level:** FHEQ7      **Credit Value:** 20      **Total Delivered Hours:** 40

**Total Learning Hours:** 200      **Private Study:** 160

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	14
Off Site	8
Practical	6
Workshop	12

**Grading Basis:** 50 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	Report	Executive summary report	50	
Essay	Essay	Essay	50	

### Aims

*To provide knowledge and understanding on the physical basis of climate change as well as an advanced introduction to climate change impacts and social and political responses.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Critically evaluate knowledge and understand of the physical basis of climate change.
- 2 Critically evaluate knowledge and understanding of social and political impacts of climate change.
- 3 Critically evaluate the political responses to the climate change problem.

## Learning Outcomes of Assessments

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

Executive summary report	1	2
Essay	2	3

## Outline Syllabus

*Physical basis of climate change. Advanced introduction to climate change impacts (atmosphere, ocean, terrestrial, biosphere). Climate models. Social and political aspects of climate change: UK, Europe and beyond. Concepts of mitigation, adaptation and sustainability.*

## Learning Activities

The module will be taught by a combination of lectures, workshops, computer-based practicals and an offsite field visit. Lectures will introduce theory and case studies. Practical will provide visual interpretation and analysis of data and workshops will enhance student synthesis and critical analysis of data and ideas. The offsite session will allow students to engage with real world activities relating to an organisation involved in research and communication of positive solutions for environmental change.

## Notes

This module will provide critical understanding of climate change from a human and physical perspective which will be needed throughout the degree.