Liverpool John Moores University

Title:	EARTH SYSTEMS
Status:	Definitive
Code:	**4103NATSCI** (112574)
Version Start Date:	01-08-2015
Owning School/Faculty:	Natural Sciences & Psychology
Teaching School/Faculty:	Natural Sciences & Psychology

Team	Leader
Tim Lane	Y
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Academic Level:	FHEQ4	**Credit Value:**	24.00	**Total Delivered Hours:**	73.50
Total Learning Hours:	240	**Private Study:**	166		

Delivery Options
Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	36.000
Off Site	12.000
Practical	24.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	exam	40.0	1.50
Portfolio	Practicals	practical portfolio	30.0	
Report	Report	field report	30.0	

Aims

To provide students with an introduction to our planet as a whole system. To

investigate the geography of the earth from a wider perspective.

Learning Outcomes

After completing the module the student should be able to:

1	demonstrate familarity with the lithosphere, biosphere, hydrosphere and atmosphere of our planet.
2	demonstrate awareness of the relationships between the Earth's geographical systems
3	demonstrate practical skills of geographical data collection, analysis and interpretation
4	analyse aspects of Earth science in a field setting.

Learning Outcomes of Assessments

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

Exam	1	2
Practical portfolio	3	
Field report	4	

Outline Syllabus

Introduction to the formation of the earth, plate tectonics & the rock cycle. Soil & the carbon cycle. Ecology & biogeography. Properties of water, air/ocean interaction. The atmosphere, circulation and global climate. Short & long term climate change, glaciation. Land use/ocean mapping from space.

Learning Activities

Lectures are integrated with appropriate lab/computer practical sessions and fieldwork.

Notes

This module provides students with an introduction to the Earth from a geographical perspactive & explores how the various global systems interact (lithosphere, atmosphere, hydrosphere, cryosphere, biosphere).