

Liverpool John Moores University

Title: COASTAL HAZARDS, POLICY AND PLANNING
Status: Definitive
Code: **7002SCSUCR** (125673)
Version Start Date: 01-08-2019

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

Team	Leader
Jason Kirby	Y

Academic Level: FHEQ7
Credit Value: 30
Total Delivered Hours: 60
Total Learning Hours: 300
Private Study: 240

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	20
Off Site	12
Practical	20
Workshop	8

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	Report	Coastal Hazard Report	50	
Presentation	Seminar	Coastal Issues Seminar	20	
Essay	Essay	Coastal Policy Critique	30	

Aims

To identify a range of climate and non-climate related coastal hazards and consider their impacts on coastal environments and populations.

To examine the threats to coastal ecosystems and communities from pollution.

To develop an understanding of risk, vulnerability, adaptation and resilience applied

to a coastal context.

To appraise integrated approaches to coastal management and the contribution of policy and legislation on sustainable practice.

To synthesise evidence and critically discuss coastal issues within a relevant policy framework.

Learning Outcomes

After completing the module the student should be able to:

- 1 Appraise the causes of major global environmental hazards including climate change, sea-level rise, erosion, storms and flooding, and assess their respective consequences on coastal environments and societies.
- 2 Illustrate future changes to coastal environments and community vulnerability through scientific projections of climate change.
- 3 Identify and critically examine contemporary problems (e.g. contaminants, eutrophication, economic development) associated with the deterioration of coastal resources.
- 4 Recognise the benefits and challenges to integrated coastal zone management actions through use of practical examples.
- 5 Demonstrate critical understanding of legislative and policy practice in the protection and management of coastal resources and communities.
- 6 Critically discuss the role of scale and different levels of government agencies, citizens, developers, resource users, and other stakeholders (including non-governmental organizations or NGOs) in coastal zone conservation and management.

Learning Outcomes of Assessments

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

Coastal Hazard Report	1	2	3
Coastal Issues Seminar	3	4	
Coastal Policy Critique	4	5	6

Outline Syllabus

Review of coastal environments, issues and management concerns. Patterns of population, coastal development and habitat loss. Climate change and consequences on coastal environments - sea-level rise, coastal flooding, storms/extreme events, ocean acidification. Marine and coastal pollution including nutrients/eutrophication and toxic contaminants. Marine litter, plastic and microplastic beads. Integrated coastal zone management approaches. US and UK coastal and marine management policy. European legislation. Coastal ecosystem restoration. Coastal protection and resilience.

Learning Activities

Lectures, practicals, workshops, seminars, field trips.

Notes

This module examines the major coastal hazards and contamination threats to ecosystems and society and assesses the regional susceptibilities and strategies for mitigation. There is a focus on climate-related threats since the ability to anticipate, respond and adapt to changing environmental conditions and threats to our coastlines is critical to developing a sustainable future for our coastal communities. Populations living close to the ocean face unique risks of coastal hazards, a warming climate and exposure to anthropogenic contaminants. Historic development of our coastal zones now face increasing threats due to rising sea levels, coastal flooding and erosion and tropical storms and hurricanes. The module also explores marine and coastal policy which serves as a foundation for students to understand issues of governance and management. Through this module, students can examine current policies that regulate coastal zones and explore contemporary management issues at a variety of scales.