



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Coastal and Marine Hazard and Resilience

2526-2-F7502Q007

Aims

The course explores the complexity of the relationships between culture, risk and disaster. The aim of the course is to improve the knowledge and understanding of the risks associated with coastal and marine environments in order to better manage them and analyse people's resilience to risk, exploring the cultural dimension of disaster.

Contents

Culture, knowledge and world views related to hazards. Cultural and political aspects of disasters, catastrophes and natural hazards (tsunamis, floods, climate change) in marine and coastal areas: adaptation, mitigation and resilience. The cultural dimension of disaster risk reduction (DRR). Sustainability in relation to the promotion of the Sustainable Development Goals (SDGs), identified by the UN Agenda 2030. Governance, stakeholders, communication and participation. The teaching content and syllabus are consistent with the training objectives of the Course of Studies

Detailed program

The course examines the development of the meaning, uses and applications of the terms as hazard, risk and resilience, etc. in marine and coastal areas, and explores the cultural dimension of disaster.

The significance of "culture" must be understood and incorporated into any attempt to deal with natural hazards (tsunami, storm surges, inundations, sea level rise) and disasters. The cultural dimension of disaster provides an understanding of human and social vulnerability to hazards, identification of stakeholders, local knowledge and resilience and social response at the local level.

In the course, case studies will be presented, focusing on the resilience-based responses to hazards and risk of multiple sets of actors (women, children, older people, local communities, international agencies, political institutions) and human activities in different contexts.

Prerequisites

None

Teaching form

The entire course will be held online. Students will be engaged in case studies, discussions of scientific papers, oral presentations and reading of environmental assessments. Students will be divided into groups to analyse the impact of a hazard in a given community and the resilience of the stakeholders involved.

Teaching will be organised as follow:

10 two-hour lectures, on line, on the keywords of the course, delivered didactics

4 two-hour lectures, on line, on case studies, interactive mode

8 hour group article reading , discussion and questions, online e-tivity

4 hours group case studies presentations and discussion, online e-tivity

PDFs of the lectures will be uploaded on the site. Lectures will be recorded and made accessible on request

Textbook and teaching resource

Final references will be uploaded by October 2025

All teaching resources are digital and can be found on the University website.

The teaching materials consist of two texts (one of them only in part) and four articles:

Texts:

The entire volume : Kelman I. (2020), "Disaster by Choice. How our actions turn natural hazards into catastrophes", Oxford University Press.

5 essays, of your choice, from the text: Krüger F., Bankoff G., Cannon T., Orłowski B., and Schipper E.L.F. (Eds.) (2015), "Cultures and Disasters: Understanding Cultural Framings in Disaster Risk Reduction", Abingdon and New York, Routledge

And the four articles:

1. Alexander D.E. (2013)"Resilience and disaster risk reduction: an etymological journey", Nat. Hazards Earth Syst. Sci., 13, 2707–2716
2. Kelman I., Gaillard J.C., Mercer J. (2015), "Climate Change's Role in Disaster Risk Reduction's Future: Beyond Vulnerability and Resilience", Int. J. Disaster Risk Sci, 6:21–27
3. Gaillard, J.C. & Gomez, C., 2015, 'Post-disaster research: Is there gold worth the rush?', *Journal of Disaster Risk Studies* 7(1), pp. 1-6
4. Gaillard JC, Sanz K, Balgos BC, Dalisay SNM, Gorman-Murray A, Smith F, Toelupe V., "Beyond men and women: a critical perspective on gender and disaster". *Disasters*. 2017 Jul;41(3):429-447

Semester

First semester

Assessment method

Final oral examination in presence. For those attending the course, the final assessment will be based on:

1. group presentations of the 4 articles analysed during the course
2. choice of a group case study related to the topic 'Hazard and Resilience', PPT and presentation of the case study chosen in the last two lectures of the course
3. oral presentation of one's personal contribution to the group work on the case study in the final exam

The aim is to test one's skills and competences in the presentation of the proposed project and to assess one's review of the scientific literature, knowledge of the topics and teamwork skills, as well as the ability to make connections between concepts, think critically and use appropriate scientific language.

For those who cannot attend the course, an oral presentation of the programme material and PDFs of lectures uploaded on the website is required. During the oral examination, comprehension of the topics covered in class and the course material, textbooks and articles listed in the syllabus will be assessed by means of general and specific questions. The choice of the oral interview as exam mode is consistent with the teaching objectives, as it allows, through a dialogical communicative situation, to interact with the student in order to assess his or her ability to critically understand the course topics and to connect theory and practice.

Score: 18-30/30

Office hours

Appointment by e-mail:

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Sustainable Development Goals

NO POVERTY | GENDER EQUALITY | REDUCED INEQUALITIES | CLIMATE ACTION | LIFE BELOW WATER | PEACE, JUSTICE AND STRONG INSTITUTIONS
