

Rethinking climate risk: the Venice paradigm

Spring School Program

UNIT 1 (Prof. Andrea D'Alpaos)

- Morphodynamics and biomorphodynamics: short introduction to coastal systems and to their evolution in response to physical and biological forcings.
- Relative sea level rise: a threat for coastal landscapes.
- Venice and its Lagoon: a unique, intertwined example of coevolution of man and environment.
- Will Venice survive to the effects of climate changes and human pressure?

UNIT 2 (Prof. Paolo De Stefani)

- Introducing the international frame on environment and climate change.
- Introducing to the international frame of natural disaster law.
- EU and State's response to climate change.
- Civil protection functions during natural disasters: state of the art in the Venice region.
- The law of climate change and public/citizen participation.

UNIT 3 (Dr. Jakob Grandin)

- Concepts and methods from natural resource management and city governance.
- How cities work together to pursue ambitious, deep, and rapid climate transformation policies? How people come to understand climate variability and change to live with it?

UNIT 4 (Dr. Luca Pezzullo)

- Psychosocial issues in Disaster Studies. Introduction to the psychosocial and anthropic processes involved in emergency management and risk management, with a focus on natural hazards.
- Risk Perception. Introduction to risk perception processes, mental representations of hazards and risks, and "risk-related" psychological factors that modulates the risk representation in individuals and groups. The Risk Perception Psychometric paradigm and other basic concepts that are at the basis of recent research in Risk Perception Studies (Affect Heuristics, etc.).
- Risk Communication. Main principles of Risk Communication, before and during major emergencies.
- Elements of Emergency Psychology. Basic concepts of Emergency Psychology and DMH (Disaster Mental Health), with a specific focus on the consequences of natural disasters (i.e. flooding, flash flooding, etc.) in the short, middle and long term on the affected population.

UNIT 5 (Dr. Giulia Bordin)

- The role of the volunteering and civic associations, with a specific reference to the city of Venice.

During the course, the students will conduct interdisciplinary group work on challenge based research projects, guided by a supervisor. They will attend on-site and online learning modules to stimulate individual reflection and reading. They will be then involved in structured and critical peer review of other student groups' research projects.

The program includes a tour of the Venice city and its lagoon, with the illustration of the typical morphological structures of a lagoonal system and a meeting with representatives of the local associations. The visit will be coordinated by the non-profit association "We are here Venice".