Resilient Infrastructure

In the 21st century, urban regions are often characterized by unsustainable development, inadequate responses to climate change, multi-scalar environmental degradation, and aging, single-use conventional infrastructure. These challenges make the design of resilient infrastructure—defined in this course as landscape systems that operate as flexible and sustainable multifunctional infrastructure—a critical and cross-cutting disciplinary concern.

LAR 5304: Resilient Infrastructure is a new, asynchronous online course open and accessible to graduate and undergraduate students across a broad range of disciplines, including Architecture, Engineering, Geography, Landscape Architecture, Natural Resources, and Urban Affairs and Planning.

The intention of this course is to provide students with an overview of the forms and processes of a variety of landscape infrastructure typologies, including infrastructure for storm and wastewater management; food cultivation; municipal solid waste management; sediment management; and flood mitigation. The course will help students develop an understanding of the social, environmental and economic factors affecting the design of infrastructures across time and various disciplines and fields.

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