



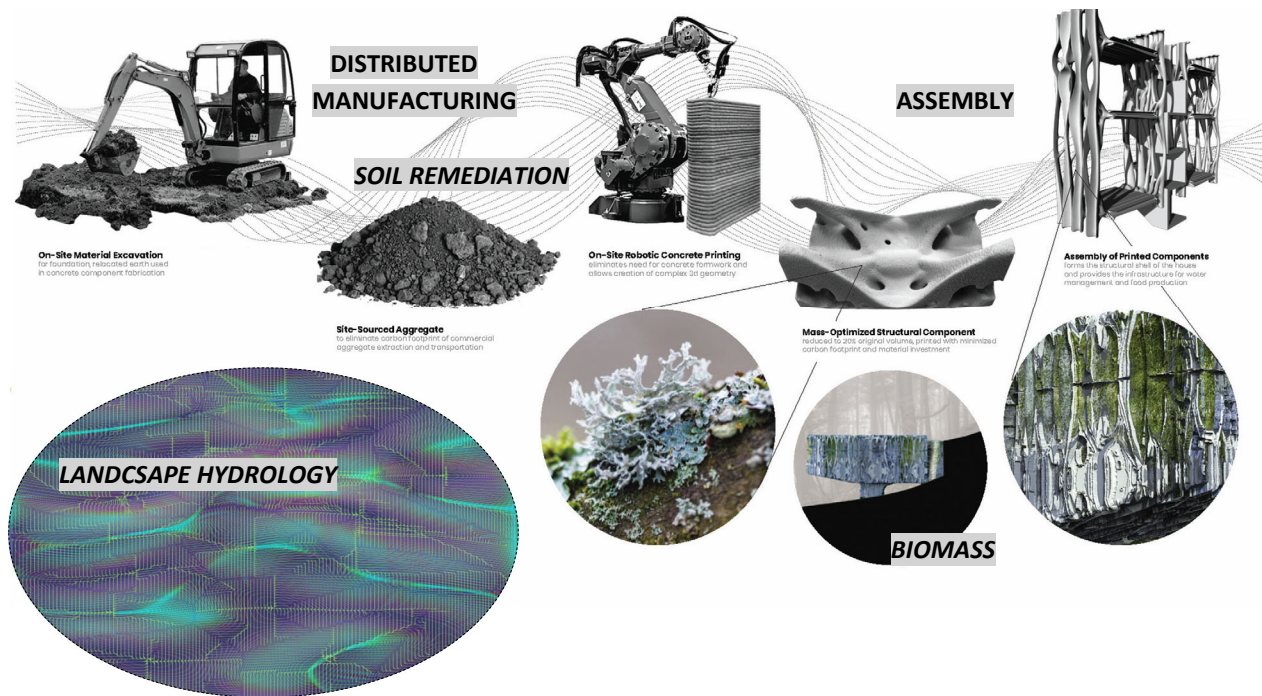
Carnegie Mellon University

School of Architecture

College of Fine Arts, CFA 201

Carnegie Mellon University

Pittsburgh, PA 15213



Lithopic House (2020-21 ASOS led by Dana Cupkova, Student work: Ryu Kondrup and Lukas Hermann)

62709 | 48743: Introduction to Ecological Design Thinking | W 10AM - 12:20PM

9 Units

Dana Cupkova

Ecology operates across scales, and across boundaries imposed by social and political systems. However, in the past, large-scale ecological patterns were often overlooked in architecture due to the centralized nature of industrial manufacturing and its labor systems. Given that ecologically conscious practices are crucial for creating socially equitable and materially resilient futures, it's essential to deepen our understanding of design-centric approaches to the built environment through research in architecture and its role as an environmental steward.

The *Introduction to Ecological Design Thinking* is a graduate-level seminar that provides an overview of scholarly, design- and research-based approaches addressing ecology, technology, and climate change in architecture and urban design. Through this seminar, students will explore and question contemporary sustainability paradigms in the built environment from different disciplinary perspectives, including history, theory, technology, engineering, material science, art, and design. This course includes a series of lectures, readings, and weekly assignments that aim to foster an interdisciplinary understanding of contemporary innovations in computing, advanced manufacturing, and material circularity, particularly regarding the integration of large-scale ecology into the design of constructed environments.