

Arch 4.154 / Repositioning

Design and Repositioning of Skyscrapers in New York City

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Credits: 0-10-11 G

Schedule: Thursday 2-5pm

Friday 2-5pm

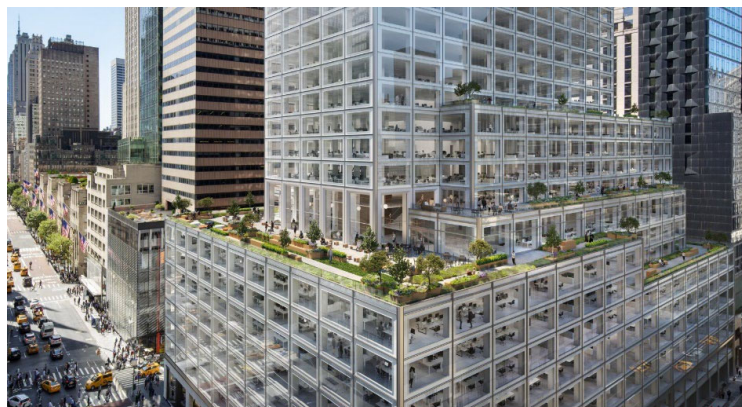
Detail Schedule on the Next Page

Format: Design Work is Individual or Self-Selected Groups of 2

Research Work is Collaborative Groups

Travel: A short field trip to New York City (2/17-2/20, TBC)

Student-funded.



This past century we have seen skyscrapers proliferate throughout cities worldwide. The realities of climate change, the global pandemic, the drive for renewable energy and their corollary in high-performance, energy efficient electrified buildings have precipitated a massive unprecedented movement towards the comprehensive repositioning of skyscrapers.

Whether necessitated by obsolete and failing mechanical systems and building envelopes, by structures that require remediation and augmentation, by spaces and environments that are outdated and fail to meet contemporary market expectations – there are now powerful cultural, technical and economic forces that have catalyzed the need and desire for the radical transformation of existing tall and large-scale buildings.

A global design and construction industry have emerged around the world to meet these fascinating opportunities. We are at the beginning of a process of renewal that will be a major part of the global construction industry moving forward. We must reimagine what is possible:

- Engage and challenge cultural and heritage values, consider questions of languages, semiotics, iconicity, branding, media and the digital-life of the architecture, in the context of performance, technology, health and wellness.
- Imagine and define new uses, an inventive programmatic mix with flexibility for an adaptable extended design life.
- Achieve net-zero energy utilization deploying best-in-class technologies, systems, materials, processes and spatial/environmental configurations.
- Define optimal re-habitation, re-utilization and re-cycling for current building systems, interiors and envelope. Evaluate and design lowest carbon utilization strategies.

Tentative Schedule:

Wk1	2/3 – 2/4	In-person
Wk2	2/10 – 2/11	In-person
Wk3	2/17 – 2/18 (Proposed Trip Period)	Field Trip / Online Meeting
Wk4	2/24 – 2/25	In-person
Wk5	3/3 – 3/4	Online
Wk6	3/10 – 3/11	In-person
Wk7	3/17 – 3/18	In-person
Wk8	3/24 – 3/25 (Spring Break)	/
Wk9	3/31 – 4/1	In-person
Wk10	4/7 – 4/8	Online
Wk11	4/14 – 4/15	In-person
Wk12	4/21 – 4/22	Online
Wk13	4/28 – 4/29	In-person
Wk14	5/5 – 5/6	Online
Final	5/10 (Tuesday)	In-person Final Review