ARCH 4/584 Spring 2024
ARCHITECTURAL DESIGN
CRN 30273 / 30314 - Monday, Wednesday, Friday 1:00 pm - 4:50 pm in 121 Gerlinger Hall

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“The tree tenant pays his rent with oxygen, his capacity for absorbing dust, as an anti-noise machine which produces quiet, by eradicating toxins, purification of the contaminated rainwater, as a producer of happiness and health, as a bringer of butterflies and with its beauty and in many other currencies.”
— Friedensreich Hundertwasser, 1973

Urban agriculture can promote nutritional security, food resilience, reduced distribution embodied impacts, and equitable access to healthy foods for burgeoning urban populations. Yet, the lack of open space, contaminated brownfields and surging land prices all constrain the establishment of urban farms and gardens. New urban agricultural production sites can be made available through building-integrated growing (BIG) agricultural concepts, such as rooftop farming, green facades, and controlled environment agriculture, creating simultaneous co-benefits where building outputs are recycled as inputs to the agricultural system, and agricultural outputs ultimately provide healthy and sustainable inputs to building systems and users.

This studio will develop BIG concepts for a future model of urban agriculture in the United States testing ideas on an urban brownfield site in Portland, Oregon. The studio will offer opportunity to engage with professionals in horticulture and extension, architecture, landscape architecture, city planning, engineering, and gastronomy to support conceptual design.

Degree requirement fulfillment: Architectural Design (Studio)

Pre-requisites and targeted student audience: ARCH 384 (UG); ARCH 682 or 683 (G)