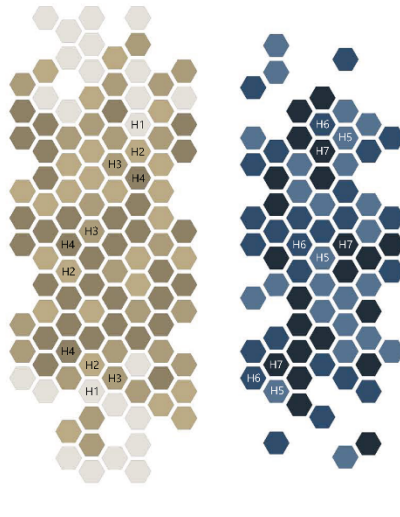
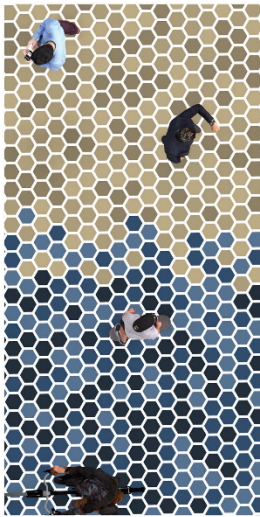


LA 4/589 Spring 2024

CONSTRUCTION STUDIO: Discrete Topographies

CRN 32627/32638 - Monday, Wednesday, Friday 1:00pm-4:50am in 308 LA Lawrence Hall

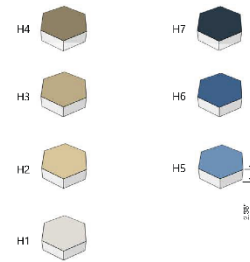
Instructor: Ignacio López Busón, ilopezbu@uoregon.edu (Office Lawrence 213)



INSTALLATION PATTERN: HEXAGON



CITYSCAPE HEXAGON PAVERS - KEYSTONE HARDSCAPES			
CODE	SIZE	COLOR - DENVER (SPECIAL)	FINISH
H1	8.08x9.33in.	LIMESTONE	STANDARD
H2	8.08x9.33in.	L. PALAMINO	STANDARD
H3	8.08x9.33in.	M. PALAMINO	STANDARD
H4	8.08x9.33in.	D. PALAMINO	STANDARD
H5	8.08x9.33in.	L. BLUE STEELE	STANDARD
H6	8.08x9.33in.	M. BLUE STEELE	STANDARD
H7	8.08x9.33in.	D. BLUE STEELE	STANDARD



UNIVERSITY OF OREGON
REPAVING 13TH AVENUE



L700

LA 589 Studio: Discrete Topographies
Jake Brotsis (Spring 2023)

“You could cover the whole earth with asphalt, but sooner or later green grass would break through.”

— Ilya Ehrenburg

COURSE DESCRIPTION:

‘Discrete Topographies’ will focus on the critical role landscape architects should play in the design and implementation of paving systems to create functional, sustainable, and attractive outdoor spaces in contemporary cities. The studio will explore the latest trends and innovations in concrete paving systems, including the use of permeable pavements, and the integration of computational technologies throughout the entire design process, from conceptualization to construction documentation.

With the assistance of local pavement manufacturers, the students will study the physical properties of concrete, such as durability, strength, color, and permeability, and how these impact the design, performance, and maintenance of concrete pavers. This course includes a visit to the manufacturer factory to learn firsthand about the entire production process. In addition to exploring the technical aspects, the studio will also examine the environmental and social benefits of sustainable pavement design, including its importance in managing stormwater, reducing the urban heat island effect, promoting walkability and accessibility, and enhancing the overall quality of the built environment.

This studio will provide students with the skills and knowledge necessary to design and document a real-world paving project and challenge them to consider the technical and aesthetic aspects of paving systems in the context of larger landscape design problems, such as sustainability and climate change resilience.



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1206 University of Oregon, Eugene OR 97403-1206
TEL 541-346-3656 | FAX 541-346-3626 archenvironment.uoregon.edu/architecture

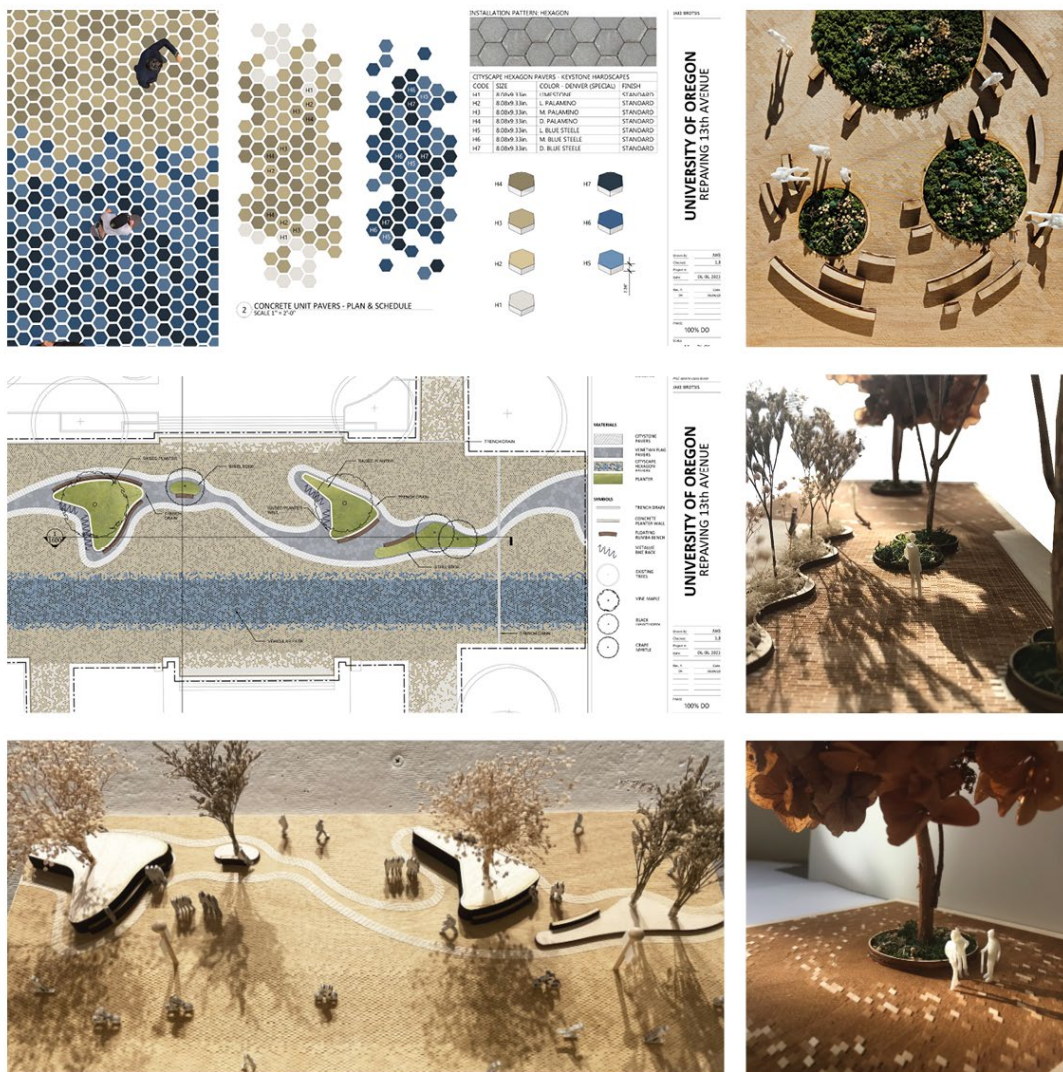
An equal-opportunity, affirmative-action institution committed to cultural diversity and compliance with the Americans with Disabilities Act

RECOMMENDED SOFTWARE:

Please, have the following software ready to use before the start of the course:

- **Rhino 6.0 or 7.0**
Free 90-day trial. Download at <https://www.rhino3d.com/>
- **Autodesk Autocad**
Free for UO Landscape Architecture students.
Download at <https://www.autodesk.com/education/edu-software/overview>
- **Adobe Suite**
Photoshop, Illustrator, InDesign. Subscription model.
Download at: <https://www.adobe.com/creativecloud/buy/students.html>

WORK SAMPLES FROM PREVIOUS YEARS:



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SUGGESTED READING:

Brown, R. D., & Gillespie, T. J. Microclimatic landscape design: Creating thermal comfort and energy efficiency. Wiley. 1995

Cantrell, B., & Mekies, A. Codify: Parametric and computational design in landscape architecture. London: Routledge. 2018.

Design Workshop. Landscape Architecture Documentation Standards: Principles, Guidelines, and Best Practices. Wiley. 2015

Harris, C. Time-Saver Standards for Landscape Architecture. McGraw Hill. 1997

Hopper, L., Landscape Architectural Graphic Standards. Wiley. 2007

Olgay, V., Design with climate: Bioclimatic approach to architectural regionalism. Princeton: Princeton University Press. 2015

Petschek, P., Grading for Landscape Architects. Birkhauser. 2008

Steiner, F., Planning and Urban Design Standards. Wiley. 2006

Strom, S., Nathan, K., Woland, J. Site Engineering for Landscape Architects. 2009

Walliss, Jillian, and Heike Rahmann. Landscape Architecture and Digital Technologies: Re-Conceptualising Design and Making. Routledge. 2016.



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