CLIMATES AND COMMUNITIES: URBAN ARCHITECTURE, DESIGN, AND PRESERVATION

Coursework in
- Climate Justice
- Community Engagement Practices
- Ecoregional Systems
- Housing and Health Equity
- Material Conservation
- Mobility and Inclusion

SCHOOL OF ARCHITECTURE & ENVIRONMENT
PORTLAND

UNIVERSITY OF OREGON

School of Architecture & Environment
COME TO PORTLAND!

COME TO PORTLAND!

PORTLAND ARCHITECTURE DEGREE PROGRAMS

M.Arch Track II – 2 year professional program, starts in PDX
M.Arch Track I – 3 year professional program, starts in Eugene
B. Arch – 5 year program, starts in Eugene

Specializations offered:
Urban Architecture and Urban Design
Historic Preservation

Dual-degree option with Historic Preservation
1. Climate Action and Relief
ARCH 607 – Track II Urban Research Seminar on Climate Action (3 credits)
ARCH 507 – Sustainable Urbanism (3 credits)

2. Housing and Health Equity
ARCH 510 – Housing Design (3 credits)
ARCH 538 – Housing Prototypes (3 credits)
ARCH 507 – Supportive Housing (3 credits)

3. Mobility and Inclusion
ARCH 510 – Urbanism Next (3-4 credits)
ARCH 510 – Inclusive Urbanism (3 credits)

4. Urban Theory and Form
ARCH 537 – Theory and History of Urban Design II (3 credits)
ARCH 535 – Principles of Urban Design (4 credits)

Sample Subject Area Electives
ARCH 507 – Real Estate Development (3 credits)
ARCH 507 – Incremental Urbanism (3 credits)
ARCH 507 – Ecologies of Health (3 credits)
ARCH 510 – Urban Water Solutions (4 credits)
ARCH 558 – Types and Typologies (3 credits)
Our approach
Portland as a place and a living laboratory
Supportive Housing: S|EA, Garlington Place; Holst, Beech St. Apartments; MWA, St. Francis Park Apartments; Ankrom Moisan, Blackburn Center
Trauma-informed design: Jessica Helgerson Interior Design, Carleton Hart Architecture, and Corlett Landscape Architecture, Portland Homeless Family Solutions – Family Village
Carleton Hart Architecture, Nesika Illahee; Waterleaf Architecture, Seven Corners Community Collaborative; 2.ink Studio, Cully Park; S|EA, Portland Mercado
Engaging with urgent social issues

Transit Oriented Development Program
Urban Design Studio: Hollywood Transit Center & District

University of Oregon, School of Design, Sustainable Urbanism Arch4/584 Spring 2020, Professor Nico Larco

University of Oregon Department of Architecture
ARCH 484/584 Architectural Design
MWF 1:00 – 5:00 pm
Winter 2017
Instructors: James Kalvelage, AIA LEED AP BD+C, Principal | Opsis Architecture
Joe Baldwin, AIA LEED AP BD+C, Senior Associate | Opsis Architecture

Campus of Hope
Addressing Portland’s Houseless Crisis

"When you’re homeless, you get so used to doing what you have to do to survive another day that you’re not thinking about getting up at a certain time or looking for work or taking care of yourself. Those are skills you have to re-learn."

Robin Lloyd
resident of the Portland Rescue Mission

Oregon Preparedness and Resiliency Center
Adopting a systems view

- Incentives
- Accountability
- How to take care of vulnerable populations
- Interdisciplinary thresholds
- Incentive perception narrative modeling
- Permeable public + environmental justice
- Increased rate

CLEANER WATER SYSTEM = CLEANER RAIN

TREATED RAINWATER USED AS POTABLE WATER FOR RESIDENTS

GREYWATER FILTERS GRAVY WATER

LIGHT GREYWATER USED FOR PRODUCTION

BAMBOO GROWS

FEEDBACK MADE FROM COMPOST USED FOR BAMBOO SOIL

BAMBOO HARVESTED

LEFT OVER SCRAP MADE INTO PELLETS FOR BIOMASS HEATING

SCRAP/WASTE MIXED WITH COMPOST USED FOR PRODUCTION OF BAMBOO GOODS

BIOGAS HEATS WATER FOR RADIANT FLOORING
UO PDX Disciplines

- Architecture
- Historic Preservation
- Product and Sports Product Design
- Journalism and Communication
Collaborating with partner programs: Strategic Communication
Collaborating with partner programs: Historic Preservation
UO PDX Research

- Sustainable Cities Initiative (SCI) / Urbanism Next
- Portland Urban Architecture Research Lab (PUARL)
- Energy Studies in Buildings Laboratory (ESBL)
- Collaborative for Inclusive Urbanism
Experimenting with new materials and construction technologies
PORTLAND AS A LIVING LABORATORY
PORTLAND AS A LIVING LABORATORY
PORTLAND AND NEW YORK: DESIGN FOR HEALTH

Wednesday, Nov 6 | 5:30pm

MARIAH KIERSEY, Managing Principal, Ankrom Moisan Architects

KAREN KUBEY, University of Oregon SAE Faculty Fellow in Design for Spatial Justice

DAVE OTTE, Partner, Holst Architecture
Programming and Campus Life
Lectures, Workshops, and Symposia
Lectures, Workshops, and Symposia

Albina ReBuilding Cornerstones Arts & Community Development Roundtable Discussion

Thursday, February 25
6:00 - 7:30 pm PT

This roundtable will take up questions of community development through the lenses of art, architecture, and activism, with a particular focus on Portland’s Albina neighborhood.

Gabrielle Bullock
Principal, Director of Global Diversity, Perkins & Will, Los Angeles

Lauren Hood
Detroit-based Community Developer and Equity Facilitator

Alanna Joy McCreary
Albina artist and resident

Winta Yohannes
Managing Director, Albina Vision Trust

MODERATORS

Cleo Davis
2020-21 Fellow in Design for Spatial Justice

Kayin Talton Davis
2020-21 Fellow in Design for Spatial Justice

Craig L. Wilkins
2018-2021 Pietro Belluschi Distinguished Visiting Professor & Fellow in Design for Spatial Justice

PERRY KULPER

FEB. 03 12 - 1PM PST
Lectures, Workshops, and Symposia

CHANDRA ROBINSON
LEVER Architecture

ENVIRONMENTS OF ENGAGEMENT

Recent Work Toward Equity and Sustainability

Noon-1:00pm PT
Monday, March 1
Virtual

c/o Zombies
Ivi Diamantopoulou & Jaffer Kolb
New Affiliates

Wednesday, March 3
5:00-6:00 pm PT

University of Oregon
School of Architecture & Environment
The Exchange
5:15-6:45pm | Fri, Feb 21

MENNA AGHA
JONATHAN BEAVER
GAIL DUBROW
MICHAEL GEFFEL
ANDREW SANTA LUCIA

The Workshop
10am-2pm | Sat, Feb 22

CORY PARKER
GAIL DUBROW
DANIEL KLINKERT
CATHEQUIN CORLETT
SCOTT KERMAN
AND GUESTS...

How is care sited and how can it be scaled? As part of the University of Oregon School of Architecture & Environment's ongoing initiative in design for spatial justice, SAE Portland is hosting an exchange and workshop on care practices in architectural design, preservation, and landscape architecture. Examining social and material precarity together from the intimate to the systemic, the event will engage with the work of repair, relief, recovery, maintenance, access, and support toward more critical forms of sustainability. The program will include a series of guest talks and an SAE reception on the evening of Friday, Feb 21 followed on Saturday, Feb 22 by an interactive workshop in Portland’s Old Town Community with students and guests who will work to define a framework for future care-oriented pedagogy and action in the city and beyond. Both sessions are free and open to the public.

Menna Agha, Visiting Assistant Professor of Architecture; Fellow in Design for Spatial Justice, University of Oregon
Jonathan Beaver, Principal, 2KMK Studio
Cathleen Corlett, Corlett Landscape Architecture
Gail Dubrow, Professor of Architecture, Landscape Architecture, Public Affairs and Planning and History, University of Minnesota
Justin Fowler, Visiting Assistant Professor; Director, Portland Architecture Program, University of Oregon
Michael Geffel, Visiting Professor of Landscape Architecture, University of Oregon
Scott Kerman, Executive Director, Blanchet House
Daniel Klinkert, Community Development Director, Old Town Community Association
Erin Moore, Associate Professor of Architecture, Director, School of Architecture & Environment, University of Oregon
Cory Parker, Visiting Assistant Professor of Landscape Architecture; Fellow in Design for Spatial Justice, University of Oregon
Chad Randi, Art Electra Assistant Professor; Director, Historic Preservation Program, University of Oregon
Andrew Santa Lucia, Assistant Professor of Practice, Portland State University; Director, Office Arquitecta
Facilities

- Fab Lab
- PDX Library and Learning Commons
- Energy Studies in Buildings Laboratory (ESBL)
- Digital Resources/Output Room
- Student Lounge
Cascades
Water Crisis Returns To Warm Springs As Virus Cases Rise

A short drive from Portland, thousands of people, a rural health clinic, businesses and senior housing are without safe tap water, while some places don’t have running water at all.

Figure 3. Portland’s African American population has steadily declined in Albina and markedly increased in neighborhoods on the outskirts of the city from 1970 to 2010. The most dramatic increases have occurred in East Portland. Data source: LTDB, 2013.
Cascades: Justice and Care
1. Climate Action + Relief
2. Housing + Health Equity
3. Mobility + Inclusion
School of Architecture & Environment
2019-20 Visiting Faculty Fellows in Design for Spatial Justice

The Design for Spatial Justice Initiative is a three-year program to support emerging and distinguished visiting faculty fellows who will teach, conduct scholarship, and use the tools of design at all scales to engage questions of spatial, social, and environmental justice. The initiative builds capacity in the School of Architecture & Environment to use emerging technologies, media and fabrication, design and design/build, community engagement, social practice, and critical spatial practice to take on the highest-stake questions in design and to continue to build a community of students, designers, and scholars whose excellence is inseparable from their diverse and global perspectives.

Learn more at: https://design.uoregon.edu/inclusion-design

Menna Agha

Priyanka Bista

Karen Kubey

Zannah Mae Matson

Cory Parker

Craig L. Wilkins
Current DSJI fellows including, clockwise from top left: Nina Maritz, Kayln Talton Davis, Cleo Davis, Grace Aaraj, Logman Arja, and Craig Wilkins.
Who we are
Incoming Leadership

Adrian Parr, Dean, College of Design

Michael Zaretsky, Department Head, Architecture
Jen Flores, Manager of Administrative Services

Jessa Waters, Academic Advisor

Lydia Griffin, Front Desk Coordinator
Erin Moore, Director, SAE; Associate Professor; Principal, FLOAT

M.Arch., UC Berkeley
B.A., Smith College

• Environmental context of building materials
• Life-cycle thinking in design
• Spatial justice
Nancy Cheng, Associate Professor and Architecture Department Head

M.Arch., Harvard Graduate School of Design
B.A., Yale University

• Digital + material design process
• Nature-inspired design
Justin Fowler, Director, Portland Architecture Program

PhD Candidate, Princeton SoA
M.Arch, Harvard Graduate School of Design
BA, The College of William and Mary

• History/theory of modern architecture + urbanism
• Climate action, health, and spatial justice
• Narrative and publication practices, media theory and design
Gerald Gast, Associate Professor; Principal, Gast-Hillmer

M.Arch Urban Design, University of Illinois
B.Arch (H Honors) University of Illinois
Licensed Architect, California

• Urban design
• Advanced architecture design studio
• Urban projects research and design workshop: projects in Ukraine and Colombia
Hajo Neis, Associate Professor; Director, PUARL

PhD (Architecture) University of California, Berkeley
MCP (City Planning) University of California, Berkeley
M.Arch University of California, Berkeley
Dipl. Ing. (Architecture and Urban Design) Technical University of Darmstadt, Germany

- Wholeness-Sustainability-Generativity
- City as a Growing Whole-Urban Process
- Urban Architecture-Inclusive Urbanism
- Regenerative Design - Morphogenesis
- Refugee Pattern Language RPL - Rome
Nico Larco, Professor; Director, Urbanism Next

M.Arch and M.CPUD, UC Berkeley
B.Arch. and B.A. in Cognitive Psychology, Cornell University

- Sustainable urbanism
- Place and identity
- Urban architecture and technology
John Leahy, Senior Instructor and Fabrication Lab Manager

M.Arch, SciArc
BSME, Mechanical Engineering, University of Virginia

• Prototyping, model making, advanced architectural representation
• Architecture and perception
Lisa Petterson, Instructor; Principal, SRG Partnership

B.Arch, University of Oregon

• Environmental Control Systems II
Mark Fretz, Associate Director of Outreach, Institute for Health & the Built Environment; Assistant Research Professor

M.Arch, University of Oregon
BA, Bethel College

• Energy Studies in Buildings Laboratory
Yosa Huggins, Instructor; Workplace Design Director, Nike

M.Arch, University of Oregon
BA, Communication and Fine Arts, Architecture, University of Memphis

• Human Context of Design
Thomas Robinson, Instructor; Principal, LEVER Architecture

M.Arch, Harvard University Graduate School of Design
BA, University of California, Berkeley

• Forest to Frame: Mass Timber Systems
Martin Houston, Instructor; President, Qualified Enclosure Consultants

B.Arch, University of Cincinnati DAAP
AIA, LEED AP

• Building Enclosures
• Performance, durability, and sustainability
Professor Alison G. Kwok, FAIA, CPHC

Ph.D., UC Berkeley, 1997
M.Arch., UC Berkeley, 1990
M.Ed., University of Hawai‘i Manoa, 1979
B.A., Biology, Art, Knox College, 1977

• Building performance case studies
• Climate resilience, thermal comfort, health, schools
• Pedagogy and design process
Clayton Taylor, Instructor; Principal, West of West

M.Arch, UCLA
B.Arch, California Polytechnic State University, San Luis Obispo
Architect, NCARB, AIA

• Architectural Design Studio
SAE Fellows in Design for Spatial Justice: Craig L. Wilkins, Belluschi Distinguished Visiting Professor

PhD, Cultural Studies and Comparative Literature, University of Minnesota
MS in Real Estate & Urban Development, Columbia GSAPP
B.Arch, University of Detroit School of Architecture

• Advanced Architectural Design
• Design Activism
SAE Fellows in Design for Spatial Justice: Cleo and Kayin Talton Davis, Visiting Professors of Practice

BS, Industrial Design, San Jose State University (Cleo)
BS, Mechanical Engineering, Portland State University (Kayin)

• Art, design, storytelling, preservation, economic growth, and policy advocacy
SAE Fellows in Design for Spatial Justice: Nina Maritz, Visiting Professor of Practice

B.Arch, University of Cape Town

- Sustainable Design
- Experimental Building Materials
Advanced Design Workshops with Sean Connelly of After Oceanic; Perry Kulper; and Ivi Diamantopoulou and Jaffer Kolb of New Affiliates
M.Arch TRACK II STUDIO SEQUENCE

Year 1
Fall – (small) building scale
Winter – (medium) housing, landscape, and/or adaptive reuse
Spring – (large) urban design

Year 2
Fall – advanced options (DSJI Fellow or practitioner-taught)
Winter – terminal/thesis studio option, part I
Spring – terminal/thesis studio option, part II
ARCH 584: Augmentor, Fall 2018

Luke Ralston, Nested Blocks
Design Strategy 5
Net Architecture: Peri-Domestic Protection as Design Inspiration
Design Team: Natasha Bogovich, Emily Buckberg and Hannah Hirzel
ARCH 584: Protective Atmospheres, Fall 2018

Catherine Earley, Elena Koepp and Sabrina Ortiz
ARCH 584: Housing Relief: Dekum Court, Justin Fowler, Winter 2020
ARCH 584: Housing Relief: Dekum Court, Justin Fowler, Winter 2020
ARCH 584: Dissolving the Monolith: Finding New Ground for Office Design, Clayton Taylor, Fall 2020
ARCH 584: Dissolving the Monolith: Finding New Ground for Office Design, Clayton Taylor, Fall 2020
Cleo and Kayin saved the Mayo House from demolition and had it moved to their lot, where it will become the ARTchive, an archive of Black histories and a community hub.

Students created designs for the Davis' lot, combining historic preservation of the Mayo House with new residential and commercial development.
ARCH 584: Rebuilding Cornerstones, Karen Kubey, Cleo and Kayin Talton Talton Davis, Fall 2019

Eric Deitering and Lindsey Naganuma
ARCH 584: Land Trust: Designing a Bird Sanctuary in Nepal, Bista, Fall 2019
Portland Design Student Union (@uopdxcollegeofdesign)

UO PDX Design Student Union
Connecting students across the Portland College Design one zoom happy hour at a time.
calendar.uoregon.edu/event/inspired_not_tired_what_keeps_myCareer_fresh
HOPES (@hopesconference)
Committee on Equity, Diversity & Inclusion (CoEDI)

**Chair:** Kelly Chompas  
**Vice Chair:** Octavio Gutierrez  
**Board Liaison:** Jen Wright  
**Staff Liaison:** Colleen Bastendorff

**Purpose:** It is the mission of the AIA Portland Committee on Equity, Diversity & Inclusion (CoEDI) to better reflect the global & demographic richness of our population through advocacy for under-represented groups in our profession.

**Keystones of our mission include:**
- Supporting firms in attracting, developing & retaining the best talent.
- Providing mentoring opportunities at all phases of the profession pipeline, beginning with early education (K-12).
- Facilitating connections to the broader community.
- Promoting the value of design and its contributions to and from society.

**Committee Resources**

**Equity in Architecture Commission: Executive Summary**  This executive summary addresses the five “keystone” areas of focus that were identified by the Equity in Architecture Commission, and 11 other priority recommendations for the AIA.

**Guides for Equitable Practice:** Best practices to ensure the profession of architecture is as diverse as the nation we serve, from AIA National.

If you are interested in joining the CoEDI Committee, want to be included on the CoEDI Slack channel, or want more information, contact info@aiaoregon.org.

**Upcoming CoEDI Events**

**Accessibility: Everything you Wanted to Know and More - Part I**  
Oct 2, 2023
AIAS Oregon (@aias_uoregon)

AIAS University of Oregon
American Institute of Architecture Students U of O Chapter
Weekly Meetings: TBA
tiny.cc/AIASUO
Design Portland is all of us, made better together.

We’re the thread that weaves together the process, practice, and content of our city’s diverse creative community. Because here, design is lasting. Evergreen. It is the thoughtful assembly of culture—a texture woven of people and perspectives pulled together by ambition. By action. Right here. And throughout the year. A whole made greater by the sum of its many parts.
National Organization of Minority Architects (NOMA), Portland Chapter (@nomapdx)
The Architecture Lobby, Portland Chapter (@archlobbypdx)
If you could change one thing in your neighborhood through design, what would it be?
Architects in Schools

Apply now to participate in the 2020-21 program!
Support our Retailers! Shop Old Town Online and Food To Go

Old Town Mural Initiative
Responding to COVID-19 With Murals on Window Boards

To See My Face To Hear My Voice
Art Exhibit and Sale
140 NW 4TH AVE IN OLD TOWN FEBURARY 4TH TO THE 29TH
CHANGE IS HAPPENING NOW.
URBANISM NEXT NATIONAL CONFERENCE
March 17-19, 2021

...And Urbanism Next Conference, Europe (June)
THE IMPACTS OF AUTONOMOUS VEHICLES AND E-COMMERCE ON LOCAL GOVERNMENT BUDGETING AND FINANCE

SUSTAINABLE CITIES INITIATIVE
UNIVERSITY OF OREGON PORTLAND

BENJAMIN Y. CLARK
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AUGUST 2017
URBANISMNEXT.UOREGON.EDU

For more information on Urbanism Next, please contact Nico Larco (nlarco@uoregon.edu)
COVID-19
Examining the near- and long-term impacts on cities.

GENERAL INTEREST
Here are a collection of articles, podcast, webinars, and other resources that we've found interesting and/or useful that aren't directly related to any of the more specific topics we've been delving into.

TRANSIT
Since the onset of the pandemic, transit ridership has fallen substantially, and transit operators are struggling to find the right balance between keeping people moving, especially essential workers, and sufficiently protecting transit workers from the risk of exposure. There are also serious concerns about budget shortfalls with the precipitous drop-off in ridership. To what extent will people return to transit as stay-at-home orders are lifted? Which temporary service changes, if any, will be made permanent?

TRANSPORTATION NETWORK COMPANIES
urbanismnext.org
SUSTAINABLE URBAN DESIGN

Sustainable Urban Design Framework

1. Energy Use & Greenhouse Gas
   - 1.10 Compact Development
   - 1.11 Robust Transit Networks
   - 1.12 Robust Bicycle Networks
   - 1.13 Vehicle Networks
   - 1.14 High Macro Scale Land Use Mix

2. Water
   - 2.10 Compact Development
   - 2.11 Avoid Flood Plane Areas

3. Ecology & Habitat
   - 3.10 Compact Development
   - 3.11 Avoid Ecologically Sensitive Areas
   - 3.12 Robust & Connected Macro Ecological Networks
   - 3.20 Ecological Corridors & Pockets
   - 3.21 High Urban Forest Continuity & Diversity
   - 3.22 Daylight & Restore Waterways
   - 3.30 High Surface Permeability
   - 3.31 Micro-Habitat Creation
   - 3.32 Native Vegetation
   - 3.33 Mitigating Habitat Disruption
   - 3.34 Robust Ecological Area Buffers
   - 3.35 Non-Polluting Lighting Design

4. Energy Use & Production
   - 4.10 Compact Development
   - 4.20 Designing and Building for Microclimate Mitigation
   - 4.30 Dense & Energy Efficient Building Typology
   - 4.31 Micro-Climatic Mitigation
   - 4.32 Low Albedo Surfaces Matierials
   - 4.33 Urban Forest & Robust Vegetation
   - 4.34 High Street Height/Width Ratio
   - 4.35 Efficient Street Lighting Design
   - 4.36 Plating for Density & Solar Exposure

5. Equity & Health
   - 5.10 Compact Development
   - 5.20 Balanced Block Size
   - 5.30 Active & Attractive Open Space
   - 5.40 Mix of Unit Types
   - 5.50 Active & Attractive Open Space
   - 5.60 Active & Attractive Open Space
   - 5.70 Site Design for Ownership & Surveillance
   - 5.80 Affordable Housing Strategies
   - 5.90 Urban Forest & Robust Vegetation
   - 5.10 Affordable Housing Strategies

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SCYP.
The Sustainable City Year Program
Urbanism Next Center
Understanding the Impacts of Emerging Technology on Cities

Nico Larco, AIA
Professor, Dept. of Architecture
Director, Urbanism Next Center
Co-Director, Sustainable Cities Institute

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@nicolarco
radical collaboration.

new design concepts from transdisciplinary work, application and results from industry partnerships.
design for evolution
building and city design and operation influences the microbiome around us which, in turn, influences us
unconventional design tools
“carbon narratives for design planning”
our carbon story is at times upside down. a clearer story proposed by: Mark Fretz, Alison Kwok, Kevin Van Den Wymelenberg
climate. housing. health.

no graphs, charts or tables needed. we must act now.
small trees into big panels.
digital fabrication. automation. high efficiency.
panelized housing. advantage.
speed. pre-fab predictability. reduced material. energy. fire resistance. biophilia.
cluster community response.
more efficient land use. resource sharing. human connections. lower costs.
forest to façade
deep energy + seismic retrofits using MPP and digitized panelized prefabrication
building monitoring
microbial “smoke detectors,” healthier indoor spaces
humidity and natural materials
ability of natural materials to help buffer and maintain indoor humidity