

ARC 585/685-6R
Thursdays, 2:00 - 4:45 pm

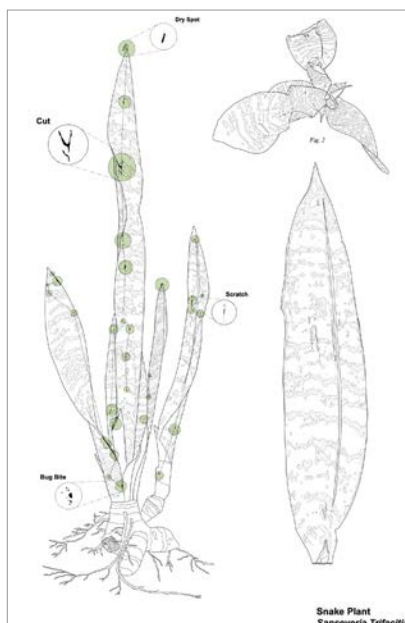
Professor Lily Chishan Wong, AIA
Architecture 48, room 120 (Old Gallery)

Architecture and Vegetal Life

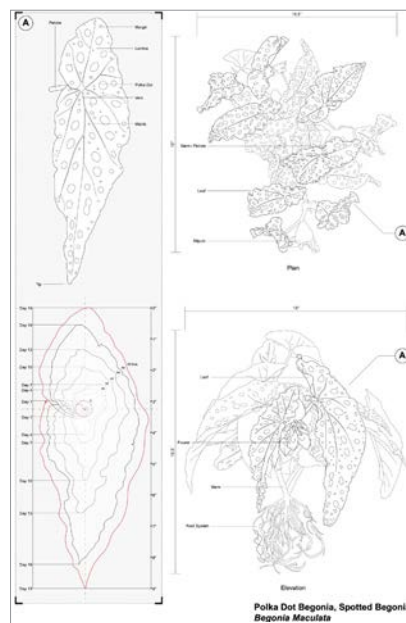
Living plants are often integral features of architectural projects—bred, grown, traded, and moved globally. They are not inanimate, passive green stuff, but play unique roles in shaping the built environment and spatial identities. In this course, we will grow plants and explore architecture's connections with plant life through lectures, reading, drawing exercises, and student creative projects. Entangled in this exploration are colonial legacies, capitalist extractions, and gendered anthropomorphism—all contributed to the construction of “nature” as a site and concept.

- How does designing for and with vegetal life shape alternative design processes and building practices?
- How does it shift assumptions about permanence and expertise in architectural and landscape productions?
- How can the act of planting empower marginalized human and more-than-human communities?

Student project includes analyzing a species of plant grown in South Florida through drawing and research.



Kyle Lenihan (B'Arch'24)



Junye Zhong (B'Arch'23)



Wendy Wang (B'Arch'23)

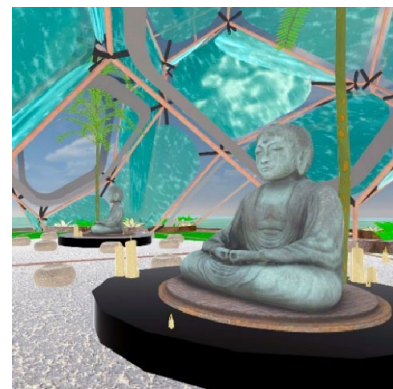
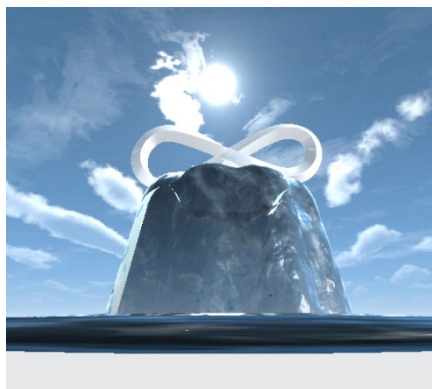
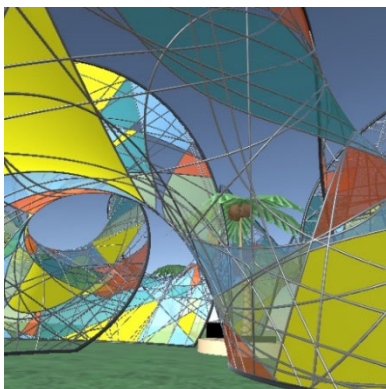


Religion and Sacred Space in an Era of Virtual Reality and Artificial Intelligence

**Thurs 5:05-7:50 PM Online: ARC 586/686-5T, REL406-5T, JUS401-5T, CIM589/689-5T
D. Hector, Architecture; W. Green, Religious Studies; & K. Grinfeder, Communications**

Religion & Sacred Space in the Era of Artificial Intelligence and Virtual Reality is an immersive, interdisciplinary course that brings together students from Architecture, Communication, and Religious Studies to explore how technology transforms the human experience. Taught entirely in virtual reality, the class invites students to design and inhabit digital sacred spaces while examining how AI and VR reshape ritual, community, and meaning. Combining theory, creativity, and collaboration, students gain hands-on experience at the intersection of spirituality, design, and emerging media, reimagining what sacred space can be in the digital age.

The course is made up of students and faculty from Architecture, Religious Studies and Interactive Media. Team projects employ AI to develop a spiritual belief systems and rituals then design VR environments for their performance. *R&SS in VR&AI* is a trans-disciplinary seminar which meets **Online in the Metaverse using Virtual Reality headsets.**



Top image: "The Path of The Bubble" Max Dimarzo, Denis Rovinskiy & Allison Thiel

Critical Practices in Landscape Architecture

Course #: 585 / 685

Lecturer: Thomas Klein

Thursdays 11:00 AM - 1:45 PM

Room: 48/320

Critical Practices in Landscape Architecture explores landscape architecture practice including built projects and theoretical currents, from the large park movement of the late 19th century to early 21st century themes.

Weekly topics related to landscape discourse through time structure the course, forming a linear history of landscape architecture while drawing connections and criticisms among texts, projects, and contemporary frameworks. Each week, the course provides numerous critical perspectives on landscape architecture. This will include guest lectures from practitioners at the forefront of practice, who will orient us each week. Together, we will analyze a predominantly Western history of landscape architecture, questioning what has been included and what has been excluded in dominant narratives. We will look at how global transformation in social, environmental, economic, and technological realms have impacted the landscape architecture profession through the lens of practice, theory, and public discourses.



UNIVERSITY OF MIAMI
CENTER for URBAN &
COMMUNITY DESIGN



AMERICAN
SOCIETY OF
LANDSCAPE
ARCHITECTS

School of Architecture | University of Miami
ARC 476-676 Spring 2026 (3 Credits)
Nineteenth and Twentieth Century Architecture

Tues. | Thurs. 11:00 am – 12:15 pm, Rinker
Dr. Victor Deupi



Joseph Paxton, *Crystal Palace*, London (1851)

This course examines the history of architecture and human settlements during the 19th and 20th centuries in Europe and America, as well as the cultural, technological, and theoretical developments of the modern world. The class will be a mixture of seminars and workshops, with lectures to provide historical background. Seminars will allow students to look in depth at a topic and will include case studies presented by students. Workshops will provide creative, collaborative opportunities to hone analytical, writing, public speaking, research skills, and look at how architects and engineers work together through studying projects and drawings.



CONSTRUCTION MANAGEMENT



LAND



MULTI-FAMILY



OFFICE



INDUSTRIAL



RETAIL

ARC 549 / ARC 649

3 CREDITS

SPRING 2026

TUESDAY EVENINGS 6:35 – 9:20 pm

INSTRUCTOR: VICTOR SANTANA RA, LEED AP

Real estate development is a collaborative, multi-disciplinary effort in which a group of professionals contribute their expertise to a project in a time-sensitive environment. Focusing on the five major development types: Land, Multi-Family, Office, Industrial and Retail; students will be introduced to the stages of development and the life cycle of a project.

PROFESSIONAL LECTURE SERIES



ARC 550 / ARC 650

3 CREDITS

SPRING 2026

WEDNESDAY EVENINGS 6:35 - 9:20

INSTRUCTOR: VICTOR SANTANA RA, LEED AP

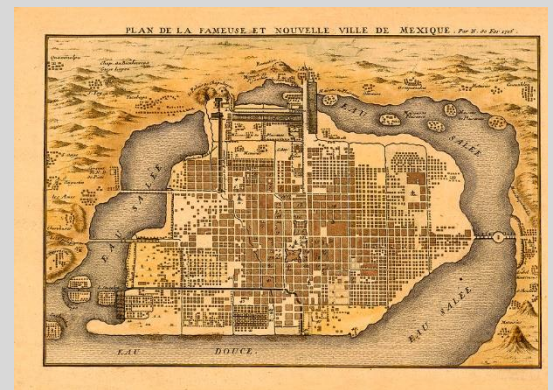
Exposure to the various professional disciplines in South Florida that make contributions to the design process. The course will provide an overview of a variety of practices and professional disciplines that impact the development of architecture. Through site visits and classroom lectures, the student will be exposed to differing practice methodologies and determine which career track best suits them after graduation.

School of Architecture | University of Miami
ARC 574/674 Spring 2026 (3 CREDITS)
RENAISSANCE ARCHITECTURE

Tues. | Thurs. 9:30-10:45 am, Rinker
Dr. Victor Deupi



As we consider the shape of cities and the role of monuments within them in the twenty first century, it is worthwhile examining how architects and patrons of the past dealt with similar issues when they first set about articulating a modern (humane) world view. The Renaissance period counts among the most fruitful eras of experimentation in architecture and urban design, and it continues to exert a strong influence on the world today, especially in the west. This course surveys the theory and practice of architecture from fifteenth through seventeenth-century Europe and America, focusing primarily on Italy. Topics of study include the Renaissance revival of classical antiquity, the changing nature of architectural practice, the role of religious orders like the Jesuits in the dissemination of architectural style and taste, and the importance of illustrated books in advancing theoretical and practical notions about architecture and the city.



NB This course will be taught in a “Flipped Learning” modality.
The course also contributes to the Classical Certificate in Architecture

ARC 579/679- An Introduction to Resilient Building & Community Design

Faculty: Prof. Sonia Chao

Credit hours: 3

Time: Tuesdays ONLY, 11:00am- 1:45pm and Spring-term Salons

Location: Zoom, except as noted.

Format: Seminar; 3-credit hour elective course (required core course for MPS program).

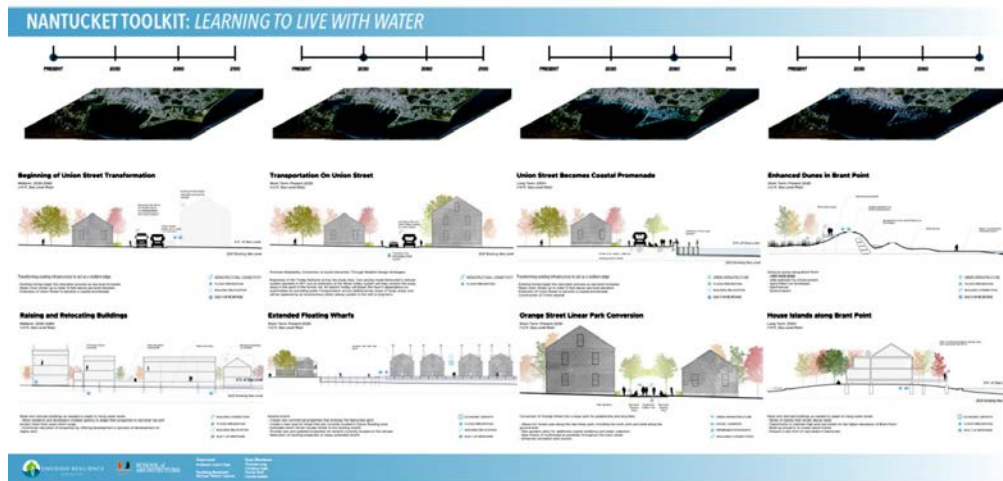


Figure 1. UM student competition board to Nantucket Challenge.

Course Description:

This course explores interdisciplinary methodologies for developing sustainable, resilient built environments. Participants analyze foundational resilience principles in architecture, urban planning, and community development, focusing on strategies to mitigate climate change, natural disasters, and socio-economic stresses. The curriculum features guest lectures from diverse experts and integrates topics beyond traditional design, such as 'urban terroir,' real estate dynamics, structural engineering, ecological systems, sociological factors, and public policy, fostering a comprehensive understanding of resilient design.

Emphasis is placed on climate-responsive vernacular architecture and innovative construction techniques tailored to local climatic conditions and emerging environmental patterns. Students also learn methodologies for organizing community workshops and fostering engagement to collaboratively envision resilient alternatives.

Through lectures, case studies, field excursions, and project-based assignments, students gain competencies in creating innovative, context-specific solutions enabling buildings, urban systems, and communities to resist, adapt to, and recover from adverse events. The curriculum highlights systems thinking, interdisciplinary adaptation strategies, stakeholder participation, and adaptive management. By completion, students acquire practical expertise in resilient design, risk assessment, and sustainable construction, preparing them for roles in architecture, planning, and related fields. Attendance at Spring-term Salons and particular sessions is required.

ARC 585/685 ArcLab: Curating Digital Collections of Architecture

Prof. Victor Deupi

Spring 2024: Thursdays 2:00– 4:45 pm (with 15 min. break) Old Gallery



This course is designed to provide undergraduate and graduate students with an in-depth examination of curatorial museum practices, as well as the practical application to implement these skills. Students on the course will co-curate a digital exhibition of works from the Special Collections of the University Libraries, and other repositories both on and off campus, that highlight the Centennial celebration of the School of Architecture. As such, the exhibition related to this ArcLab will be highly finite in nature, rather than providing a broad survey of UM architectural alumni. This course requires students to undertake a significant amount of firsthand research and writing. To this end, students will complete weekly readings and/or assignments that ultimately aid them in the completion of catalogue entries and wall texts for the resulting exhibition.



Adiós Cuba – Hola Cubanidad (ArtLab 2022) <https://storymaps.arcgis.com/stories/b77382595e5645dab40b7edcf5d1d849>
Building Magic from the Archives (ArcLab 2024) <https://storymaps.arcgis.com/stories/a6edbc0ba3334333bb228603358d6a52>

AN IN-DEPTH STUDY OF THE LIFE AND WORK OF HILARIO CANDELA, A MID-CENTURY MASTER

ARC 585/685, Spring 2026
Prof. Jorge L. Hernandez
Old Gallery

M. 6:35pm – 9:20pm
jhernandez@miami.edu
3 Credits



Miami Marine Stadium under construction with 26-year-old Architect, Hilario Candela

This seminar will involve directed readings, research and documentation on the work of Hilario Candela, the Architect of the Miami Marine Stadium, the Miami Dade Community College campuses and other iconic Miami landscapes from the 1960's. The students will prepare reports and drawings for an upcoming publication on the work of Mr. Candela.

New Modernist Narratives in Historic Preservation

ARC 585-685-8D

Javier Ors Ausín

Fridays 11.00am – 1:45pm

48/120



Cinema Studio Namibe, Angola

This project-based seminar will explore contemporary approaches to the conservation and adaptive reuse of Modernist architecture worldwide, with a particular emphasis on Tropical Modernist structures in the Global South. Utilizing a range of preservation projects from Africa, South America, and South Asia as case studies, the course seeks to expand the understanding of Modernism by recognizing it as a complex, transnational movement of the twentieth century shaped by varied political contexts, environmental factors, and architectural traditions.

Aligned with these objectives, each lecture will highlight the ways in which historic preservation can engage local communities and stakeholders through initiatives including documentation, conservation planning, adaptive reuse, and restoration. The seminar will feature discussions with prominent figures in the fields of architecture and preservation from around the world.

For their final assignment, students will be expected to formulate a critical preservation intervention for a selected Modernist site in Miami.

**School of Architecture | University of Miami
Spring 2026**

ARC 581 | ARC 681 | (3 Credits)

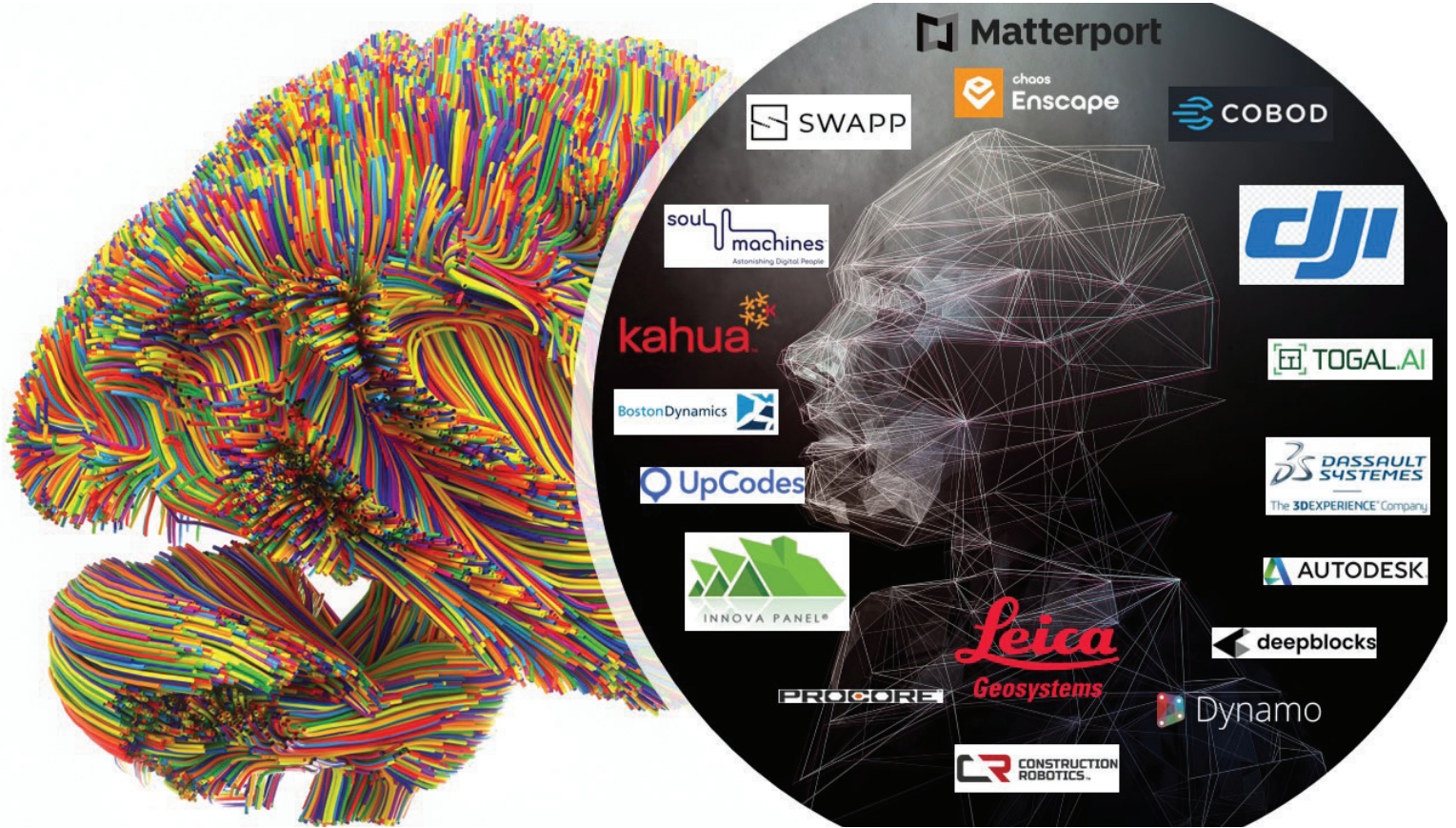
CMA 642 (2 Credits)

EMERGING TECHNOLOGIES IN DESIGN & CONSTRUCTION

Day: Wednesdays 6:35pm - 9:20pm

Room: Architecture 49 110

Lecturer: Adam Demler



Microsoft PowerPoint Stock Images
Logos of Various Building Industry Technology Companies

This course will review, use, discuss and study the application of emerging technologies within the building industry. Students must have previous knowledge of topics such as BIM and a strong interest in the use and application of technology to design, construction and real estate. Many students simply do not understand the myriad of technologies that will confront them in the workplace and what will be required of them in 21st century practice. This course helps students understand and prepare for emerging technologies that are being explored and applied to innovative business use cases within professional practice.

Discover, explore and develop your emerging technology skills. Become a thought leader in the building industry. Understand technology workflows used in the building industry.

GONZALO FUENMAYOR

Explorations in watercolor and mixed media for Architects

ARC 585/685-1P - Tuesdays 11am – 1.45 pm

48/320



This course unfolds in two phases; first, exploring watercolor, ink and mixed media as potent forms of creative communication, and then seamlessly integrating these techniques into the architectural realm.

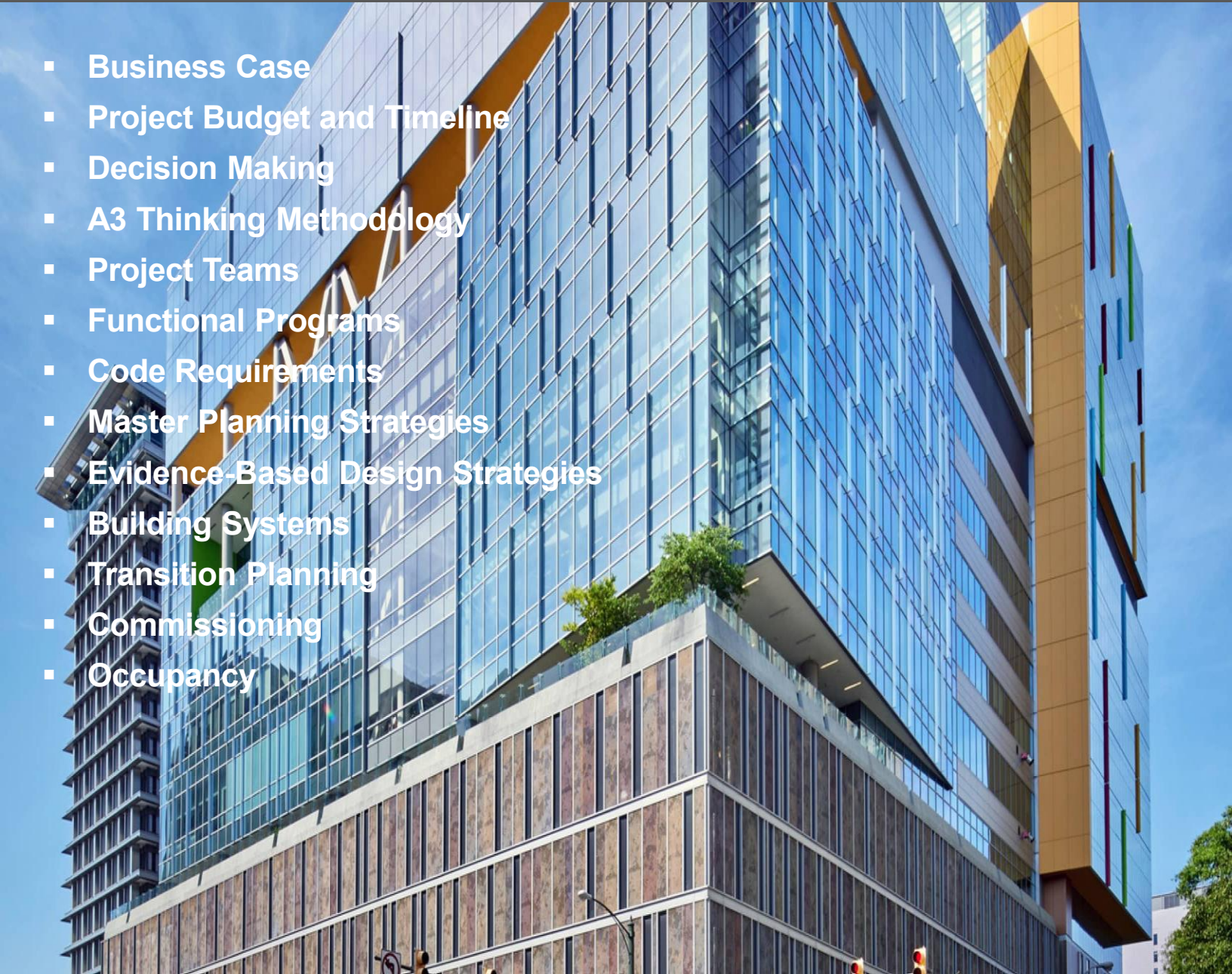
During the initial phase, artists such as Kandinsky, Van Gogh and Egon Schiele will prompt an exploration into the line, gesture, texture and emotions. Students will explore watercolor, ink, watercolor pencils, gouache, tempera and other wet mediums to convey their personal narratives.

Transitioning to a more practical application, in the second half of the semester, students will gain insight into elevating their own architectural perspectives, sketches, elevations and designs with water based techniques.

The course culminates in a final project where imagination and reality merge by rendering one of the cities in Italo Calvino's "Invisible Cities" Book . Whether you are a seasoned artist aiming to elevate design communication or an architect curious in expanding and transforming your work, this course will provide a playful and creative platform for exploration and growth

HEALTHCARE DESIGN MODULES

Exploring Hospital Planning Through Case Studies and Expert Insights

- 
- Business Case
 - Project Budget and Timeline
 - Decision Making
 - A3 Thinking Methodology
 - Project Teams
 - Functional Programs
 - Code Requirements
 - Master Planning Strategies
 - Evidence-Based Design Strategies
 - Building Systems
 - Transition Planning
 - Commissioning
 - Occupancy

ARC 585/685-1T
TUESDAY 5:05 – 7:50 PM

HEALTHCARE DESIGN MODULES
INPATIENT CARE

Deborah Franqui, AIA, PhD, NCARB, EDAC
Track Leader Healthcare Design,
University of Miami, School of Architecture
Healthcare Research Leader,
Bermello Ajamil a Woolpert Company

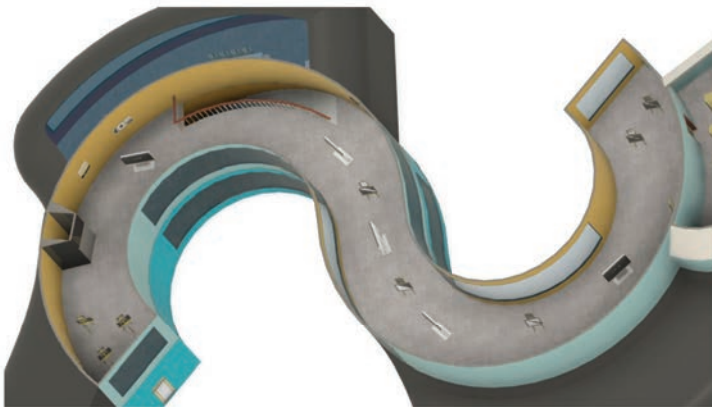
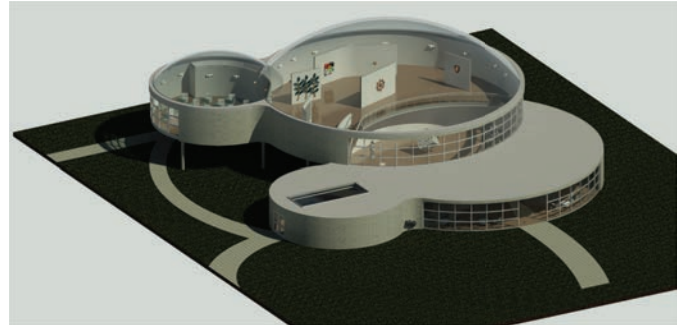
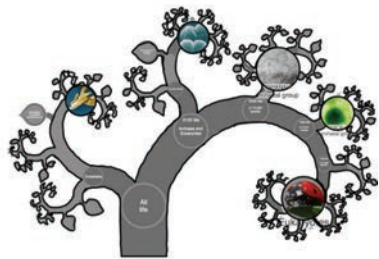
Spring 2026 - Instructor: Indrit
Alushani

ENVIRONMENTALLY RESPONSIVE SYSTEMS

An advanced architecture elective that immerses students in the dynamic intersection of design, computation, and responsive technologies. In this course, students will explore parametric design using Grasshopper to develop elegant, climate-reactive structures, and gain hands-on experience with electronics through Playground Express boards to prototype interactive, kinetic systems. From digital fabrication to real-time environmental feedback loops, the course challenges students to think critically and creatively about architecture as a living interface—adapting to light, motion, sound, and human presence. This is a unique opportunity to blend design thinking with tangible making, shaping the future of responsive environments.



Prof. Nelson Alvarez
ARC293_ Introduction to Architectural Design II
Fall 2026, from August/11- December/12



This course is a continuation of ARC 292 and an introduction to the interactions between architecture and engineering disciplines for non-architecture majors. Theories of building and site design, history and technology as an integral component of design, program, site, climate and methodology of construction. Students will be introduced to the basics of the Architectural Design Process which concludes with a final presentation of specific Program Assignment.

It is a dynamic course, emphasizing full interaction between students and professors of Architecture and Engineering. The professor encourages new and fresh ideas, in a collaborative and creative learning environment.

CREATIVE CRAFT

U|SoA Spring '26

Professor Germane Barnes

585/685 Product Design

THUR 2-4:45pm

Rinker classroom



Multi-disciplinarity is critical for future career success. Chairs, jewelry, tapestries, flatware and clothing are all objects that architects have at some point attempted to design as an expansion to their practice. In this course students will utilize their architecture design skills to continue the legacy of Charles and Ray Eames, Virgil Abloh, and Tom Ford, amongst others by designing products, furniture or clothing.

Geographic Information Systems I

Instructor:

Sarbeswar Praharaj, PhD

Assistant Professor, School of Architecture

Overview

This course introduces GIS principles, spatial data analysis, and mapping techniques. Students will learn to collect, manage, and interpret location data using GIS software. Through hands-on exercises, GIS applications in urban planning, built environment design, and decision-making in local government are explored, preparing students for real-world problem-solving with geospatial technologies.

Both desktop-based and web GIS software lessons are offered to expose students to cutting-edge solutions for visual communication and storytelling.

Skills You Will Gain



GIS Data Management

You will acquire essential skills for handling and professionally managing spatial GIS data, which are in high demand in the industry.



Map Design & Research Insights

You will gain expertise in designing high-quality maps/visualizations to effectively communicate urban and environmental issues.



Public Facing Mapping Application

You will be equipped to create sophisticated web-based StoryMaps & Dashboard apps to engage and broaden your audience.

Modules

GIS Fundamentals

- GIS software platforms
- Data tables, attributes, & queries
- GIS data sources & structures
- Spatial data setup & management

Mapping & Cartography

- Map symbology & classifications
- Thematic & time-animated maps
- Web-based mapping techniques
- Preparing professional map layout

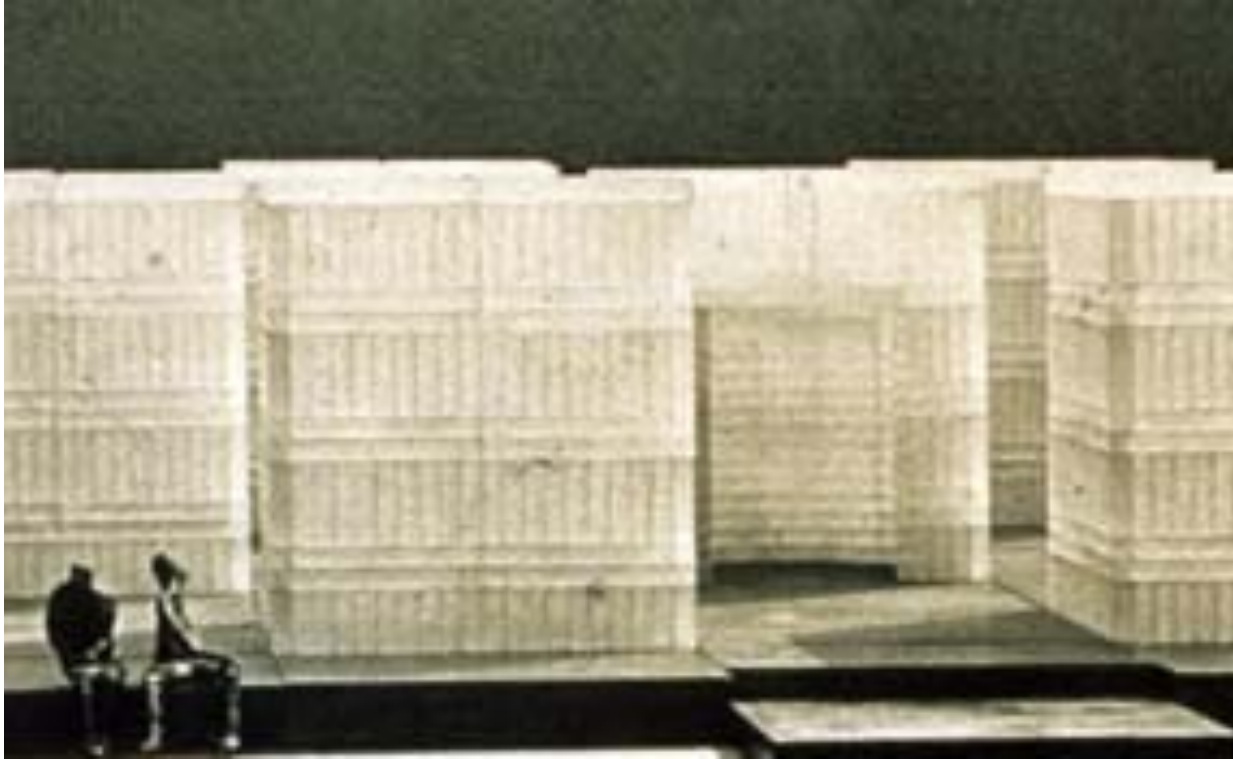
Spatial Analysis

- Joining & overlaying spatial layers
- Geoprocessing for advanced tasks
- Spatial analysis of satellite imagery
- Spatial correlation & regression

StoryMaps & Dashboards

- Design web-based GIS apps
- Visual storytelling using StoryMap
- Interactive geospatial dashboards
- Visualization user-interface design





Louis Kahn's 1968 model for the Monument to the Six Million Jewish Martyrs, plexiglass and painted wood on painted base. Image Source: Kent Larson, William Mitchell, and Vincent J. Scully. Louis I. Kahn: Unbuilt Masterworks. (United States: Crown Publishing Group, 2000).

ON GLASS

THE MEANING OF MATERIAL

"Glass and light- two forms of the same thing! Modern architecture is beckoned to a better reckoning by this most precious of the architect's new material. As yet, little has been done with it but the possibilities are large."

Frank Lloyd Wright

This course will examine the role of glass in architectural history from the earliest artifacts to the present. Once a precious and magical substance, glass and its making have now become mainstream, largely shaping the image of the contemporary city. Yet despite its prevalence, it is surprising how little this material has modified our sense of architecture beyond the manipulation of a building's surface in search of maximum transparency.

Using lectures, case studies, guest speakers and relevant site visits, the class will examine glass production and the evolution of the glass industry as well as the material qualities and poetic potential of glass to transform our understanding of architecture by extending what can be seen, completing spatial compositions, and producing environments of brilliance and illusion. In addition, the seminar includes a sponsored trip to *Tecnoglass* headquarters in Barranquilla, Colombia, where students will study first-hand how glass is made, explore new technologies and advances, and observe how it is transformed into windows for buildings across the world. The trip, with hotel, flights, and local transportation provided, will also feature talks, presentations, and lectures with local and international glass experts.

Prof. Adib Cure
Spring 2026

Spring 2026 – INTERVENTIONS IN ARCHITECTURE (3 cr)

ARC 586/686-1K, Mondays, 6.35 pm – 9.20 pm, Rinker

Professor Aaron Young



This unique course will investigate the armature of the idea. Focusing on the creator's intentions. The following attributes will serve as building blocks for discussion and critique.

site/environment
culture/ritual
community/history
material use
form/function
pace/timing
engagement
sound and performance

We will explore through artist talks, video and image documentation how artists have used site specific objects, installations and architecture to inform and elevate their ideas.

Students will be asked to create, in the medium of their choosing, an intervention in physical space or digital space.



CONTEMPORARY LATIN AMERICAN ARCHITECTURE

3 credits ARC 560-660 T/TH 5:05-6:20 Prof. Jose A. Gelabert-Navia

Contemporary Latin American Architecture is a three-credit architectural history and theory course that seeks to examine the ways in which architecture, and the built environment are shaped by, and shape, globalization. We will cover the evolution of Modern Architecture from Mexico to Argentina and the Caribbean. We will discuss how labor, products and ideas that have crossed, challenged and blurred established national boundaries.

The course seeks to examine the meaning of contextual modernism in the sphere of architecture and urbanism. It presents Contemporary Latin American architecture as it manifests itself in issues of identity, alienation, cultural authenticity, and the relation of culture to modernity. It will discuss how acquired influences; design culture and economic dependency become the defining elements of contemporary Latin American Architecture today. The knowledge of the extraordinary achievements of contemporary Latin American architects will bridge the understanding of the relationships between world cultures, political economies and the built environment.

Format: Lecture and readings. The students will be assigned an iconic work Latin American House that will be analyzed during the entire semester using plans, diagrams and a model executed with the School of Architecture's 3D Printer.

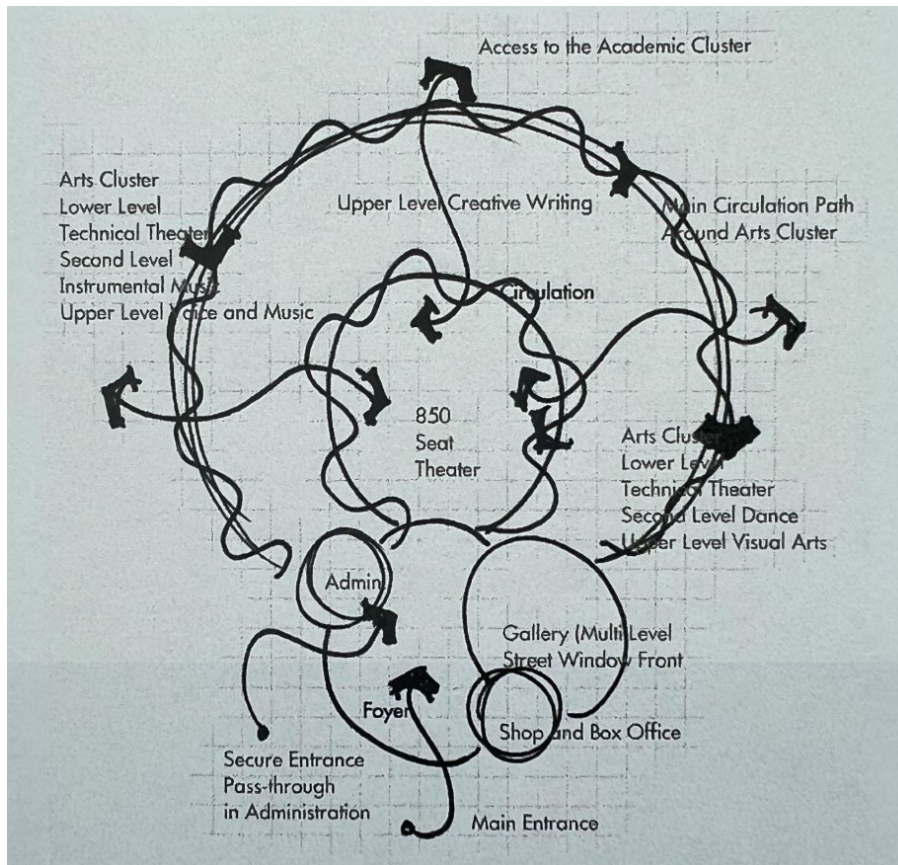
Pre Design Programing, Identifying Client Focused Architectural Objectives

ARC 585/685 Re Design Programming

Section 2T

Tuesdays 5:05-7:50

Krista Waitz



Prior to a client requesting an architectural proposal, stakeholders determine a critical barrier to a business model which may result in changes to their built environment. The resulting problem analysis involves a wide range of stakeholder consultation, research into behavior and business plans, study of construction and investigating site

barriers, analysis, and planning. This class will detail the pre-design phase and result in an individual project selected and developed by the student in the student's area of interest.

The objective of the class is to understand this necessary predesign phase and use research and problem seeking approaches to inform the design process. Students will present work at each milestone to both hone client presentation skills and gain knowledge from fellow student projects.

EXPLORING XR IN ARCHITECTURE

Ruth Ron ARC583/ARC683 –1P

Thursdays 11:00AM – 1:45PM

ARCH48 – room 330

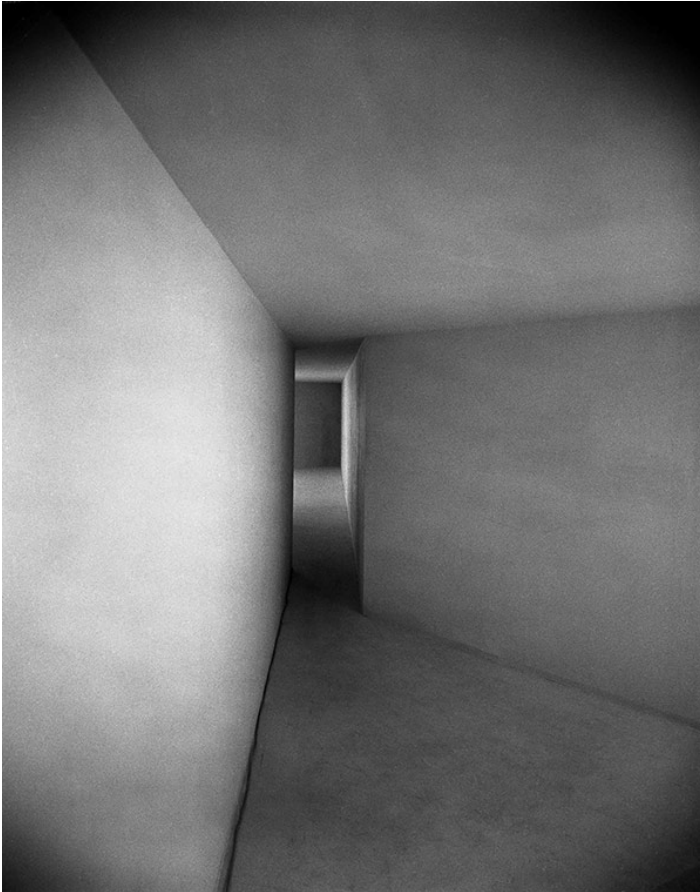
In a rapidly evolving digital world, Extended Reality (XR)—an umbrella term encompassing Virtual Reality (VR), Augmented Reality (AR), and Mixed Reality (MR)—is transforming the way we design, experience, and interact with architectural space. Through hands-on exploration of both software and hardware, students will gain skills in creating immersive environments using tools such as headsets and 3D modeling platforms.

The course will also examine the historical development of Virtual Reality (VR) and its integration into design practices. **Emphasis will be placed on the use of emerging AI tools to generate 3D models for XR** applications, preparing students to innovate at the intersection of architecture, technology, and immersive experience. rron@miami.edu



SEEING IS FORGETTING THE NAME OF THE THING ONE SEES

Remodeling a Series of Robert Irwin and Michael Asher's 'Spaces'



Michael Asher, Pomona College Art Gallery, 1970

University of Miami
School of Architecture

Florian Sauter, PhD
Elective Course, Spring 2026

ARC 585/685
Tuesday 2:00-4:45 pm
Building 48 / 330

In the spring of 1970, at the height of the “Space Age,” the group exhibition *Spaces* opened at the Museum of Modern Art in New York. In summary, its accompanying catalog stated: “In the past, space was merely an attribute of a work of art, rendered by illusionistic conventions in painting or by displacement of volume in sculpture, and the space that separated viewer and object was ignored as just distance. This invisible dimension is now being considered as an active ingredient, not simply to be represented but to be shaped and characterized by the artist, and capable of involving and merging viewer and art in a situation of greater scope and scale. In effect, one now enters the interior space of the work of art—an area formerly experienced only visually from without, approached, but not encroached upon—and is presented with a set of conditions rather than a finite object.”

Foregrounding the immersion in and perception of delicately crafted and strangely manipulated spaces, this critical “Spatial Turn” in art during the late 1960s and 1970s has not been comprehensively studied, particularly in terms of its architectural potential to reframe the understanding of space in new ways. One apparent reason is that many of the site-specific installations were only temporary. Due to that fact, and for the first time in history, this seminar seeks to reconstruct a series of seminal works by Robert Irwin and Michael Asher from the *Light and Space* movement. Difficult to grasp in their spatial richness and meditative quality, and even more so since only a few archival documents remain of the original works as the artists’ primary intention was that spectators should directly experience the spaces in situ, the physical and digital model appear to be the ideal instrument for our task to capture the raw power of these enigmatic, sometimes highly conceptual and sensitive works.

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(2" from left and right borders and 1" from the top)

School of Architecture | University of Miami
Spring, 2026
ARC 527 and ARC 627 (graduate students)
Architectural Photography and Composition

Steven Brooke



University of Cincinnati, School of Engineering
Michael Graves, Architect

This unique course develops the basic compositional and technical skills necessary to photograph architecture, landscape, and interiors. The emphasis is on composition and the taking of photographs in the field. Classes meet once a week for three hours. The course explores in depth: (1) History of the Depiction of Architecture. (2) Principles and Systems of Composition. Examples are drawn from artists such as: Caravaggio, Cezanne, Corot, de Chirico, Canaletto, de Hooch, Hopper, Piranesi, Poussin, Saenredam, Turner, Vermeer, Hugh Ferriss, and others. (3) Photographic Techniques. (4) Software Techniques. The subject matter includes: individual buildings, streetscapes, building complexes, high-rises, landscape, commercial and residential interiors, evening photography, room vignettes, still life, black-and white photography, and architectural models. Students may use either a 35mm digital camera [preferred] or a smart phone. Steven Brooke has been photographing architecture and design for over 40 years. He is a Fellow of the American Academy in Rome and winner of the National AIA Institute Honor Award for Photography. He has photographed over 40 books on architecture and design, ten of which he has also authored. His work may be seen at www.stevenbrooke.com. Questions may be addressed to steven@stevenbrooke.com.

Tropicalism + Tropical Architecture



Nest House, Thuan An, Vietnam, A21studio, 2019

Across a wide swath of equatorial lands, tropical architecture has evolved in response to regional identity, culture, history, building typology and contemporary lifestyle. It has also, at times, distilled natural facts into exotic and symbolic fantasies. As a theme, tropical architecture came to particular prominence in the modern era. Tropicalist architects embraced modern architecture, even as they aspired to a spirit of authenticity that had deep roots in vernacular traditions and naturalist ideals. *Tropicalism + Tropical Architecture* surveys the facets and manifestations of tropical architecture, using locations around the tropical belt – including Brazil, Venezuela, Cuba, India, West Africa, Australia and Miami – as historic and contemporary case studies. Students will produce new research and materials to be used in future publications and exhibitions.

ARC 585/685; GEG 416/616

URBAN ANALYTICS & GEOVISUALIZATION

Tue/Thu
3:30 pm – 4:45 pm

Dr. Sarbeswar Praharaj

Course Outline

Cities are producing vast amounts of data due to growing digitization in society and the built environment. This course will demonstrate how diverse sources of urban data can be collected, analyzed, and communicated through computation and visualization tools. You will be exposed to a range of cutting-edge datasets typically encountered by professional analysts and gain hands-on experience in exploring complex data using GIS-based mapping, dashboard design, and story mapping techniques. We will further explore real-world applications of these tools through our guest speakers from local governments. The course will prepare you to communicate data with confidence and engage the broader public with your insights. You will not only design visualization but also learn to evaluate how users engage with visual interfaces. Overall, you will gain a critical appreciation of the potential for urban analytics to inform community solutions and policy-making.

Skills you will gain:

- Data-driven Decisionmaking in the Urban Context
- GIS-based Mapping for Exploring Urban Issues
- Data Dashboard Design
- Story Mapping
- Web-based Interactive Data Tool Development
- Data Communication
- Urban Data Governance