

ADVOCACY FOR ARCHITECTS

THE ART OF THE APPROVAL

ARC 581 / ARC 681 SPRING 2021 SEMESTER 1 CREDIT

PROFESSOR: STEVEN J. WERNICK, ESQ. AICP

CLASS HOURS: MONDAY, 6:00PM TO 8:45PM

MEETING DATES: MARCH 29 - APRIL 26



Course Description:

This is a multi-disciplinary course intended to prepare practitioners in the real estate development industry with a legal framework of the local government development approval process and the essential tools for developers, architects, and other design professionals to successfully present projects and secure entitlements within the regulatory and design approval process. The course will start with an overview of the legal principles animating the government's regulation of the use and development of land, including federal, state and local laws. The course will introduce students to the elements of successful advocacy, including effective communication with local government staff, preparation for public hearing presentations, public speaking, cross-examination, and emerging trends including impacts of new technology.

WEBSITE:
<https://europe.uli.org/programmes/awards-and-competitions/ulihinesstudentcompetition/>

2022 ULI

2 ULI / Hines
2 Student Competition Elective

1 From January 11 to 25
3 Credits

Faculty: Joanna Lombard & Veruska Vasconez
Associated ULI Hines Faculty Team:

Architecture & Urban Design, Elizabeth Plater-Zyberk, Joanna Lombard, Veruska Vasconez; Real Estate Development + Urbanism, Chuck Bohl, Mark Troen; Business School, Alex Morcate

Description:

The ULI Hines Student Competition Elective is an intensive charrette. Working daily over the course of the two-week competition period, students develop and produce a comprehensive ULI Hines Competition submission for an integrated urban design and development proposal for a large-scale, urban site with representation of design, as well as marketing, and financial projections. The specific project requirements will be released at the competition opening. The requirements of previous years have been: a 72" x 36" presentation board of the design proposal; a development pro forma; a 500-word narrative summarizing the design and development plan; and a 500-word narrative describing the financing plan. The faculty members structure the two-week engagement through a series of information sessions, critiques and reviews with invited experts. The primary goal is for each student to emerge with a significant understanding of the process of originating a development proposal in its entirety, and representing the proposal as a transformative urban project and effective investment opportunity.

Eligibility:

Graduate Student status and 5th-year B.Arch. students

Advance Requirements:

Team assembly and Registration by 04 December 2020.

Register Oct. 4 – Dec. 04, 2020

Each team is required to have 5 members, with at least 3 disciplines represented on the team- ideally, M.Urban Design; M. Real Estate Development +Urbanism; M. Business Administration; M.Architecture I/II ; B.Architecture (5th year). When the Competition Registration opens, teams submit an online application with each team member's name, résumé, and confirmation of academic program enrollment to demonstrate that the team meets the criteria for interdisciplinary participation. ULI/Hines will review the team application and send an email confirming team eligibility.



Contemporary Latin American Architecture

Spring 2021 3 credits ARC 560/660 / T/TH 6:00-7:15PM/ Prof. Jose Gelabert-Navia

An examination of Contemporary Latin American Architecture and Urbanism from the turn of the 20th Century to the present day. The work of some of the great figures on Latin American Modernism such as *Niemeyer* and *Barragan*, to contemporary figures such as *Paulo Mendes da Rocha* and *Isay Weinfeld* will be discussed. The influence of the Modern Movement in Europe and *Le Corbusier* will be reviewed. Large scale City Plans such as *Lucio Costa's Plan for Brasilia* and *Roberto Burle-Marx's designs for Flamengo Park and Copacabana* in Rio de Janeiro will be analyzed.

The course meets twice a week for a lecture/seminar. There will be assigned readings to complement the lectures. Attendance and two Term Papers are required: The first on a specific building that was significant to the Movement and the Final Project on the work of an individual Architect.

ARC 551/661 SPRING 2021
SPECIAL PROBLEMS
MONDAY 6:00-8:30 PM

ONLINE
PROF. ROBERTO BEHAR
SCHOOL OF ARCHITECTURE
UNIVERSITY OF MIAMI



CONTEMPORARY ARCHITECTURE & THE CONSTRUCTION OF THE CITY

The publication of *The Architecture of the City* by Aldo Rossi in 1966 and *Delirious New York* in 1978 by Rem Koolhaas mark the beginning of the rediscovery of the interrelationship between architecture and the city.

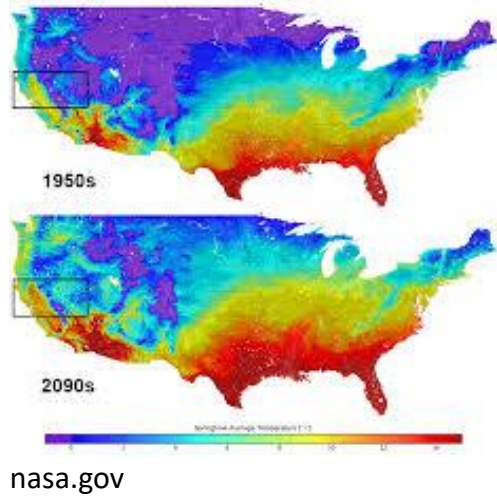
This course introduces the student to relevant projects of twenty century and contemporary architecture that participate in the construction of urban identity. Through in-depth case study presentations, projects and architects are related to specific cultures, times and places. The course travels the XX century and capitals such as Stockholm, New York City, Moscow, Milano, Washington DC, Sao Paulo, Paris, Venice and Tokyo. Architects to be presented include, Ragnar Ostberg, Raymond Hood, Ivan Leonidov, Ernesto Rogers, Gio Ponti, Lina Bo Bardi, Venturi-Scott-Brown, Aldo Rossi, Rem Koolhaas and Sanna and others.

The class will research the work of Aldo Rossi in America through drawings and readings.

Spring 2021

ARC 539/639 Adaptation to Climate Change

Professor Elizabeth Plater-Zyberk



- Introduction to climate change + the public discussion
- Review of scientific evidence
- Impacts: health, economy, natural + built environments,
- Built environment responses: mitigation and adaptation
- Challenges ahead: public and private sector



Tuesdays 6:00 - 8:30

Lectures, readings, visiting speakers, site visits, student research and reports

Criminal Architecture

2CHAINZ

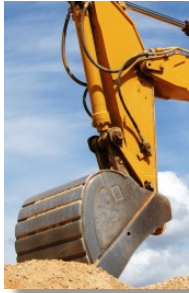


Pretty Girls

TRAP
MUSIC

This survey course will analyze spatial policies and practices that have wrecked marginalized communities under the auspice of Architecture and Urbanism. Students will diagram the spatialization of criminality with the goal of shooting their own criminal video.

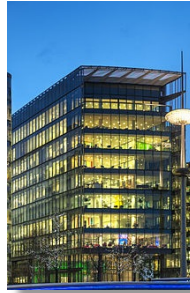
CONSTRUCTION MANAGEMENT



LAND



MULTI-FAMILY



OFFICE



INDUSTRIAL



RETAIL

ARC 549 / ARC 649

SPRING 2021

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. Due to the complexities of acquisitions, entitlements, financing, regulations, market fluctuations, and construction variances, the management of development projects has become a science. As a result, cost and time estimating tools have been established to assist in resource management and in the execution of projects.

Students will be exposed to the development types; risks and responsibilities of the stakeholders; project organization standards; legal structures, entities and contracts; cost and time estimating methods; and the economics of project financing. Through a series of lectures, invited guest lecturers from the profession and a hands-on construction schedule term project, students will have the knowledge and understanding necessary to make informed decisions and impact the success of projects.



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History of Modern **INTERIORS**

ARC524-624 - 3 Credits - Thursdays 9:40-12:25pm - Instructor: **Carmen L. Guerrero**



Villa Planchart - Caracas, Venezuela designed by Gio Ponti (1957)

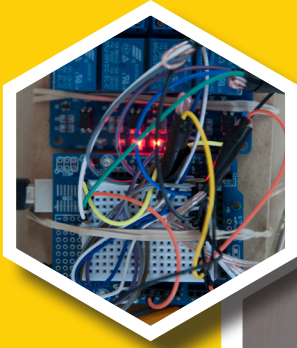
“The architect must imagine for each window, a person at the sill, for each door a person passing through”.

- *Gio Ponti*

History of Modern Interiors traces the major movements in design through interiors, furniture, industrial design and decorative arts of the 20th century and the contemporary period. Students will discover the theoretical concepts of key historical movements. Buildings and interiors are discussed in terms of function, symbolism, methods of fabrication, style, use of color, ornament and significance. Special emphasis will be placed on the role of the architect in interior design. Projects designed by key architects and designers around the world, including Miami will serve as case studies for the course.

Lessons will be delivered through lectures, site visits, research, in-class assignments and projects.

INTERVIEWS



PATIENTS



PHYSICIANS



EVIDENCE
BASED
DESIGN

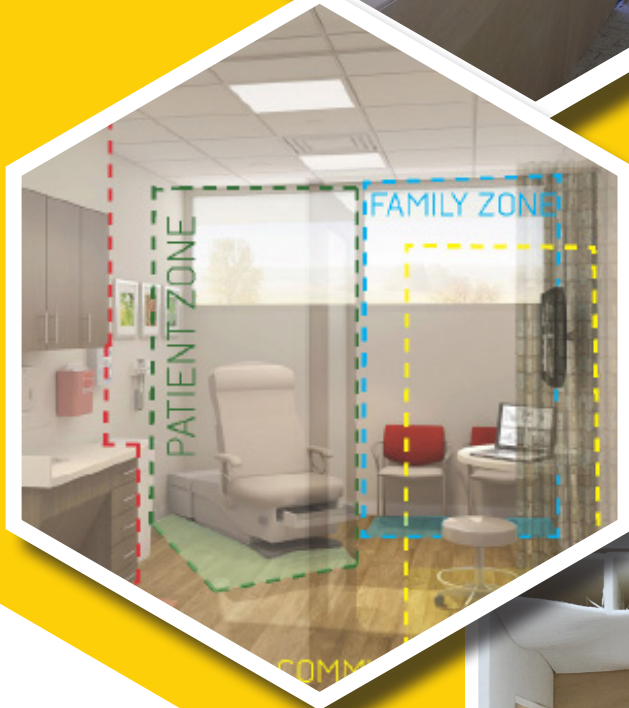
SURVEYS



RESEARCH



HEALTHCARE
+
INTERNET OF
THINGS



EVIDENCE
BASED
DESIGN

ARC 586/686 (Sec. Q)

THURSDAY 1:00 - 3:45 PM

Deborah Franqui, AIA, PhD

Evidence-based design (EBD) is the process of basing design decisions on scientific research to achieve the best possible outcomes.

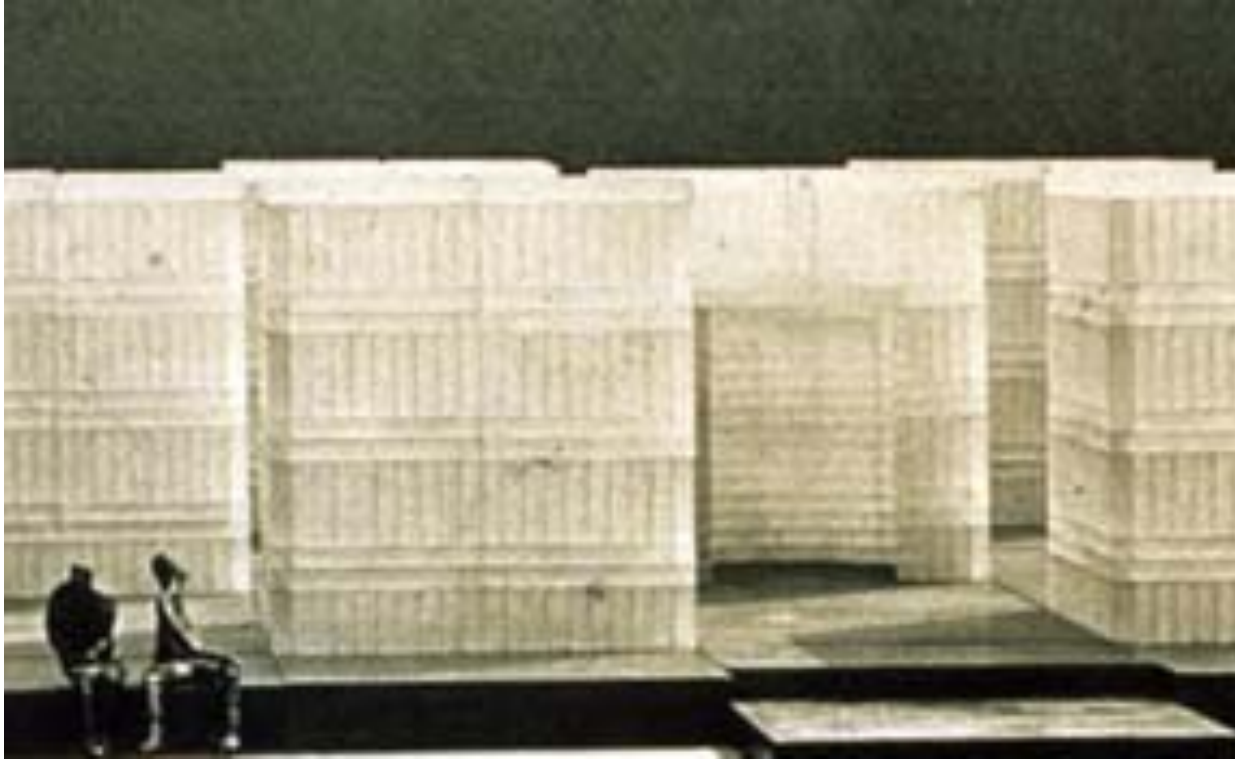
In coordination with a Research Grant focused on Healthcare and the IoT, this course will explore a broad range of research methods to assess the impact of home environments and technology on Community Health.

Qualitative and Quantitative Research Methods including Interviews, Focus Group, Case Study, Survey, and Evaluation Research will be explored.

Interviews with physicians, medical assistants, and nurse practitioners will be conducted to assess essential biometrics that can help monitor patients at home to improve community health.

Surveys will be conducted to measure the impact of biometrics on community health outcomes.

Evaluation tools will be developed to assess the impact of home environments and technology on health.



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.

Through the use of 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 through the extension of vistas, the completion of forms and the production of environments of brilliance and illusion.

Prof. Adib Cure
Spring 2021

Winter Intersession- 2021 3 Credits Elective



Innovation in Affordable Housing Student design & Planning competition

- 09-14-2020** Competition launch; registration opens; guidelines and criteria announced
- 11-02-2020** Deadline for teams to register: Noon Eastern Standard Time
- 11-2020** Detailed Program Site and Housing Authority announced
- 01-25-2021** Deadline for teams to submit Phase I: Noon Eastern Standard Time

https://www.huduser.gov/portal/sites/default/files/pdf/IAH_2021_Competition_Guidelines.pdf

Project Statement

HUD's Office of Policy Development and Research (PD&R) presents the 2021 Innovation in Affordable Housing Student Design and Planning Competition. Now in its eighth year, the competition invites teams of students pursuing graduate degrees in planning, public policy, architecture, real estate finance or development, and business to participate. The competition uniquely focuses on proposed solutions that demonstrate the interdisciplinary teams' understanding of community, population served, housing affordability, and the development process, including design and finance.

Eligibility

- The competition is open to current graduate students working as a team, with a minimum of three and a maximum of five students.
- Teams should represent various disciplines as the evaluation criteria include design, construction, planning, financial, environmental, and social issues.
- Each team must have students representing at least three disciplines that grant three different degrees, at least one of which must be from an architectural or design-related program, and one must be from a non-design-related discipline. For example, teams might comprise graduate students in architecture, planning, public policy, finance, business administration, and real estate development.

Awards and Recognition

\$20,000 First Place
\$10,000 Runner Up
\$5,000 Finalists

RED 650/ARC 583 – Complex Real Estate Transactions

Professor Mark L. Troen, FRICS
Spring 2021 - 3 credits

COURSE DESCRIPTION

This course analyzes real estate transactions and deal structuring from the developer's perspective. Using the case study method, the course explores the key components and the disciplines needed for successful real estate transactions and projects.

The class focuses on the complex nature of the real estate development process. Course materials, lectures, and case studies provide a detailed investigation and analysis of the essential disciplines and functional areas in the real estate development process including:

- Market & Financial Fundamentals
- Acquisition & Site Selection
- Entitlements & Public-Private Sector Issues
- Design & Construction
- Development Marketing
- Financing & Deal Structures
- Legal Issues
- Sales & Leasing
- Management & Operations

Deal-making aspects such as negotiation, structuring, and acquisition strategies are the focus. The course consists of lectures, case study assignments (individual and team), a mid-term exam & final group project. Guest speakers will include leading practitioners and developers from the local real estate community who will present real deals and lessons learned.

Each week, the case studies will highlight a central topic such as pro forma market & financial analysis, land development, land use regulation, dealing with the public sector and the community interests, planning & design, construction management, and the life cycle of deals.

COURSE OBJECTIVES

The course provides a rigorous decision-making framework that offers students a detailed understanding of the real estate development process. Students learn to recognize and analyze a broad range of real estate development issues and make effective managerial decisions.

The course also provides students with an understanding of the components and chronology of the real estate development process and how these elements can be integrated to create viable and successful projects. Students will understand the fundamentals of how to analyze, develop, and operate a broad range of real estate development projects.

Tuesdays 6:00 PM – 8:35 PM
Perez Architecture Center (Location TBD)
Theo Dickinson Drive
Coral Gables, Florida 33146

Mark L. Troen, FRICS
Professor
MRED+U School of Architecture
mtroen@miami.edu
(561) 855-4415

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EMERGING TECHNOLOGIES IN DESIGN AND CONSTRUCTION

- ARC 586 – Special Problems
- ARC 686 – Special Problems
- CMA 642 – Emerging Technologies

Lecturer: Adam Demler

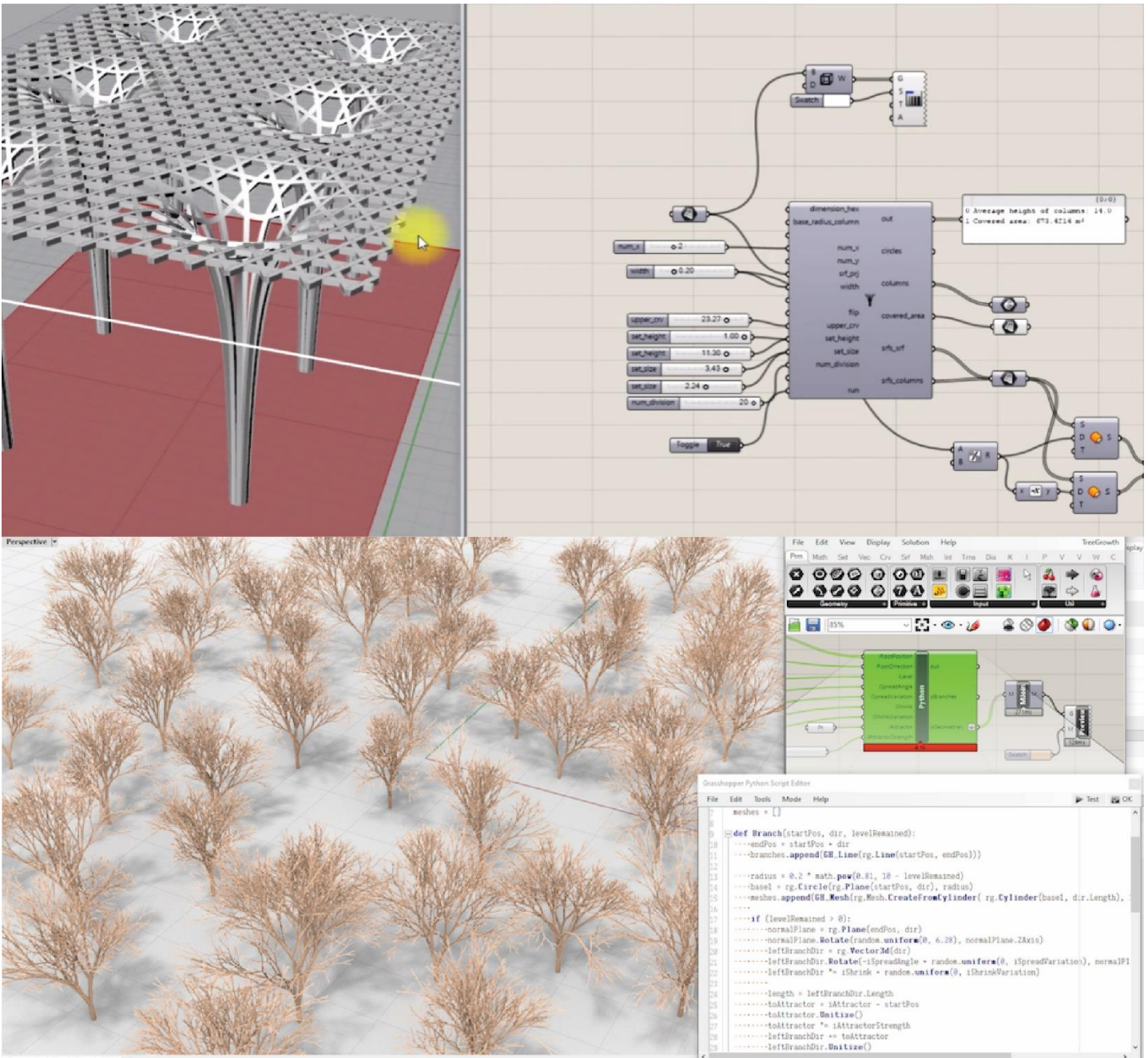


This course will review, use, discuss and study the application of emerging technologies in design and construction. Students must have previous knowledge of BIM and an interest in technology.

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 architecture and construction management students prepare for which technologies currently exist and which emerging technologies are being explored for use in practice.

Subject matter covered may include but is not limited to:

- Advanced BIM practices
- Information Management Skills
- Industry Standards
- Visualization Tools
- New Materials
- Building Fabrication Methods
- Internet of Things (IoT)
- Project Platforms
- Project Management & Collaboration Tools
- 3D scanning & printing
- AI and Machine Learning
- Robotics



INTRODUCTION TO PROGRAMMING FOR ARCHITECTS

ARC 598-698

TUESDAYS + THURSDAY 2:40 - 3:55 PM

Christopher Chung

As digital tools continue to play an increasing role in the Architect's toolkit, it is becoming increasingly important that Architects not only understand how to use and navigate these tools but to customize and adapt them to their specific needs. Learning how to program allows Architects to start to fully utilize the potential in digital tools by maximizing the possibilities in not only 3D modeling and digital fabrication but in responsive architecture, embedded computation and animating spaces contributing to a more dynamic and potentially inter-connected built environment.

The course will be working with Grasshopper for Rhino, a popular visual programming IDE for computational design, exploring common scripting algorithms such as – Attractor Points, Cull patterns, Surface Box Morphs, Geometry distribution, and Surface Panelization – while understanding the basic underlying data structures of Lists and Data Trees. Basic Python scripting will be introduced as the course progresses, allowing students to understand how to create custom components while also being exposed to fundamental programming concepts. Finally, the course will explore the various digital fabrication technologies as students learn how to translate their digital creations into physical prototypes.

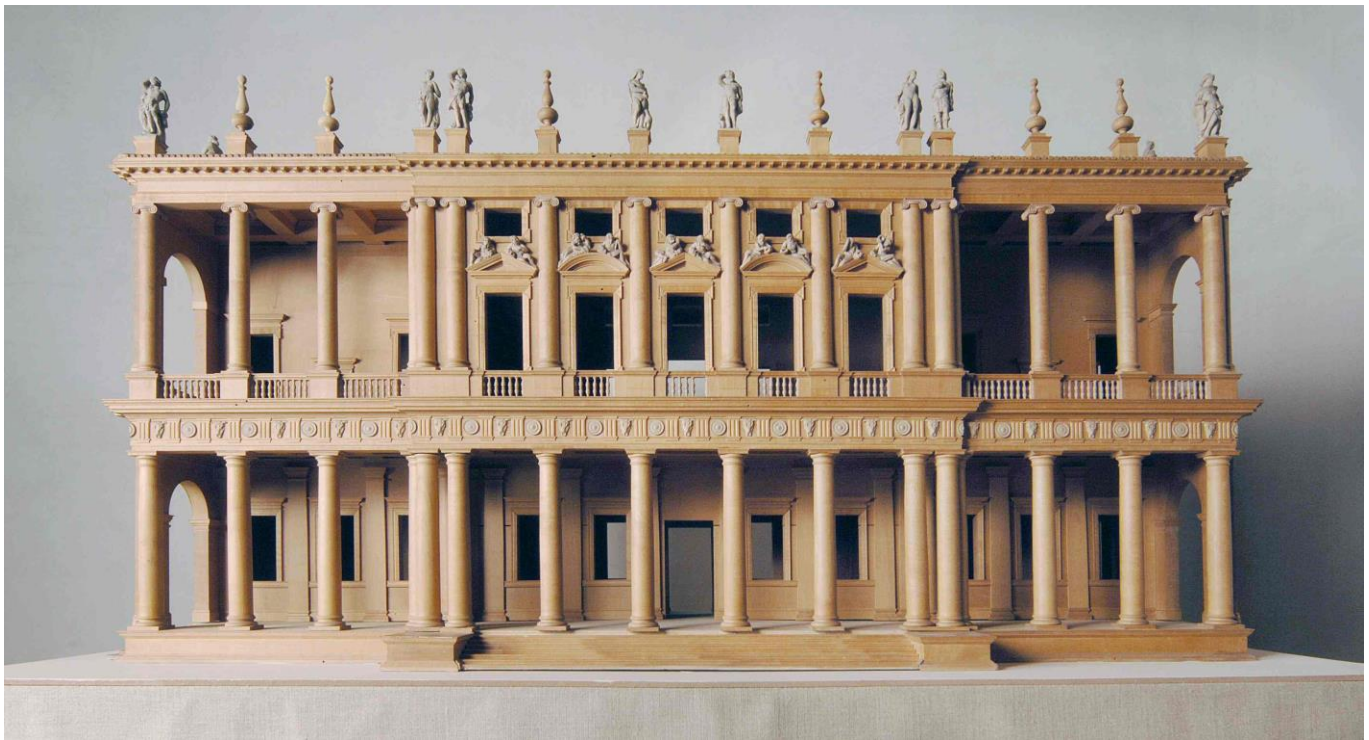
"I would like there to exist places that are stable, unmoving, intangible, untouched and almost untouchable, unchanging, deep-rooted; places that might be points of reference, of departure, of origin: My birthplace, the cradle of my family, the house where I may have been born, the tree I may have seen grow (that my father may have planted the day I was born), the attic of my childhood filled with intact memories ...

Such places don't exist, and it's because they don't exist that space becomes a question, ceases to be self-evident, ceases to be incorporated, ceases to be appropriated. Space is a doubt: I have constantly to mark it, to designate it. It's never mine, never given to me, I have to conquer it."

Georges Perec, *Species of Spaces* (1974)

SPACE ODYSSEY

I am the space and time where and when I am. The limits of one's language define the limits of one's world, while the development of new terminologies goes hand in hand with a changing understanding of things. In analogy, only very limited is our vocabulary about space: what is *innocent*, *narrative* or *figurative* space? What is a *strange*, a *nude* or a *kinetic* room? Once leaving our common descriptions behind, a whole new territory of meanings arises. While every medium translates space into something else, the quality of architecture can ultimately only be verified through the experience of the built space itself. Thus, while music requires the performance, architecture relies on its spatial execution – it is in space where the discipline's autonomy and uniqueness lie; in other words, space is to architecture, what air is to life. On this basis, we will inquire in this seminar about space – space as found, space in nature, space as an idea – in order to imagine a room with a view, where space is just defined by light and form.



The Architecture and Urbanism of Andrea Palladio

Seminar and Workshop

3Credit Hybrid Course

The course consists of a seminar on the architecture and urbanism of the Italian Renaissance architect Andrea Palladio and a critical workshop to study the work of the architect in drawing and model form in contemporary representation media. Of concentration are subjects such as the antecedents of Palladio's work, typological characteristics of the domestic program in Venice and the Veneto for instance, the theory and cultural context of the Italian Renaissance in Northern Italy which would shape Palladio's conception of architecture and the construction of the city and the influence of Palladio's architecture in history since the Renaissance, in Europe, and, particularly, in America.

The workshop project is focused on the study of the compositional, programmatic and tectonic qualities of the work of the architect by means of traditional and contemporary media in architecture representation and performs as a compliment to the seminar text affording a comprehensive understanding of the individual and the artist.