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.
A mason works on repairing damaged oolitic limestone walls on historic building.

The goal of this historic preservation course is to familiarize students with the foundational concepts, principles and history of cultural heritage stewardship. The course provides a general introduction to the history and theory of historic preservation and includes examples of cultural heritage stewardship fundamental to the engagement of cultural resources, planning and management. Instruction is conducted in a lecture and seminar format. Learning resources include selected readings and require that students come prepared to engage in class discussions and debate the topics of each assignment.
CONSTRUCTION MANAGEMENT

ARC 549 / ARC 649
3 CREDITS

SPRING 2024
TUESDAY EVENINGS 6:35 – 9:20

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.
Theories of Landscape Architecture, ARC 558, Spring 2024
Joanna Lombard

University of Miami Course Bulletin Description:
Leading theories of landscape architecture which have influenced current considerations of nature, landscape, and design, including concerns such as urban heat island effect, climate change resilience, and health impacts of landscape. 3 Credit Hours

Dr. Galt Simmons, Coconut Grove’s first woman physician was renowned for her care of the area’s settlers (Bahamian, Miccosukee, Seminole, and North American families). Her office and stable remain in their original location at The Kampong, the home and garden of plant explorers David (1869-1954) and Marian Fairchild (1880-1962), now the site of the National Tropical Botanical Garden in Coconut Grove.

Course Synopsis:
The first part of the course explores the foundation of landscape theories influential in current conditions while investigating the historic landscape of The Kampong site through additional resources in anthropology, botany, ecology, and geology. Building on this work and future climate projections, the second part of the course engages in the development of a proposal for the Dr. Eleanor Galt Simmons Medicinal Garden. Course outcomes include a visual representation of research/analysis and a garden design proposal (site plan, plant lists and views) to be presented to The Kampong leadership team.

Further info:
jlombard@miami.edu
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 and Baroque periods count among the most fruitful eras of experimentation in architecture and urban design, and they continue 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, 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
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 in 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 deal with issues of modernity, identity, tradition, and the avant-garde in mid-century architecture at the University of Miami campus. As such, the exhibition related to this ArcLab will be highly finite in nature, rather than providing a broad survey of Miami modernism. 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.
From simulating the nuances of physics to visualizing precise climate data, computational tools are enabling the architect to do more and to think differently. Beyond stylistic expressions, these tools allow for a highly efficient workflow that is becoming a standard in today’s practice.

This introductory course to computational design will expose students to a parametric-based approach to architectural making. The course will involve the use of visual scripting tools for iterative design explorations and building performance analysis to both generate and evaluate design outcomes.

Students will work with several media including Grasshopper for Rhino3D, animation software, and fabrication tools to design a facade and pavilion prototype. In parallel, students will be exposed to different construction/assembly methods as well as experimental representation techniques.
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.
Cities are amongst the greatest of human endeavors. They are the backdrop for our lives and the legacy that we leave for future generations to inhabit. I have come to understand that the quality of our daily lives (our health, the health of our planet, our sense of connection, and even our happiness) is directly influenced by the design of our built environment and yet we seldom discuss what makes great cities and how can we work together to design a better world. This course will interface with the international radio program | podcast, entitled ON CITIES. Weekly, live interviews with leading experts from a variety of fields tackle some of the leading challenges facing cities today including climate change, affordable housing, embedded technologies, infrastructure, the arts, urban policy, transportation, social mobility and much, much more. The course will participate in the live interviews, followed by in-class discussions that are meant to provide more informal discussions between guests, faculty and students. If interested, please connect to previous episodes through the Voice America network https://www.voiceamerica.com/show/4119/on-cities or your favorite podcast platform to learn more about previous guests and themes. If you would have any questions regarding the structure of the class, please feel free to contact me at cpenabad@miami.edu.
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, goache, 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.
CONTEMPORARY ARCHITECTURE & URBAN IDENTITY

The publication of The Architecture of the City by Aldo Rossi in 1966 and Delirious New York in 1978 by Rem Koolhaas marks 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 building 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 Koolhass, Sanna and others. The class format includes lectures by faculty and in class presentations and discussion by students of significant architecture events and projects of the XX & XXI century.
Anti-Heroes:

Buildings, Bags & Ghosts

Lecturer: Sophie Juneau

“Heroes have expiry dates. Buildings don’t. Once designed to be the Hero of the neighborhood, certain buildings become like forgotten Hollywood stars when they are abandoned. They are no longer Heroes, but ordinary structures waiting to be rediscovered.”

GHOST STORIES:
The Carrier Bag Theory of Architecture

This class will take on an expanded view of preservation to include abandoned or ordinary structures, buildings without conventional architectural merit, or anti-heroes, which have become either active local participants or are awaiting re-appropriation.

Taking South Florida as its sample and testing bed, a series of buildings will be mined for their myths, layered histories and stories. Students will be asked to expand on the conventional tools of preservation to document these anti-heroes and will engage with them through experimental drawings, interviews, personal accounts, personal photographs, sound bites, gossip and hearsay.
The course is a complement to the History of the City (ARC 590). Lectures, films, readings, and students’ presentations will focus on the 20th century city. Through a concentration of some of the most important Capital cities like Berlin, Vienna, Barcelona, and Rome, the course highlights the realities, ideologies, and utopias of the 20th century metropolis. Among the themes will be the debate between small town and metropolis, the Charter of Athens, Team X, New Towns and Neighborhood Units, Metabolism, Townscape, Aldo Rossi’s concept of the Analogous City, the Reconstruction of the European City, as well as an introduction to the history of its preservation. Semester’s works will include presentation of readings and graphic analysis of case studies.
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, CIM489/689-5T
D. Hector, Architecture; W. Green, Religious Studies; & K. Grinfeder, Communications

Throughout history, religion and sacred space have been significant to human communities and the communication of prosocial values and practices. Digital culture has created new modalities of communication with all-encompassing haptic effect that impacts how religion works and affects society. This course examines the impacts of Virtual Reality and Artificial Intelligence on how we encounter religion's structure and practices today and in the future.

*R&SS in VR&AI* is a trans-disciplinary seminar that meets online in the Metaverse using Virtual Reality headsets. 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.

Top image: “The Path of The Bubble” Max Dimarzo, Denis Rovinskiy & Allison Thiel
The course studies the relationship between architecture and film. Lectures, film screenings, and readings explore the origin and development of filmic space with an emphasis on its relation to art and the image of the city. The course analyzes selected films as they relate to, comment, criticize, and anticipate the development of contemporary concepts of space, urban space, decoration, etc.

ARC 592/692 TH. 6:35-9:20

L’ÂGE D’OR, L. BUÑUEL, 1930
This upper level undergraduate (4th+5th year) and graduate-level elective focuses on exposing students emerging methodologies for design and fabrication. The course tackles a variety of medium for construction such as 3d printing, robotics, as well as computational tools such as generative design and artificial intelligence. The course aims to speculate on how these technologies will continue to develop and what the role of the architect will be in understanding and applying them within our profession.

Students will gain hands-on experience and theoretical knowledge to harness these innovative technologies through a series of short two-week exercises throughout the first half of the semester. The goal for the workshops are to give a high level overview of these emerging tools and processes.

The second half of the semester will be an in depth research project by the individual students focusing on one of the specific technologies covered in the class. The goal for this project is for the students to gain a more comprehensive understanding of one of the technologies or processes that interest them the most. At the end of the semester students will present these research projects to each other so that all of the students in the class will have an understanding of where these technologies are currently at within the profession.
Contemporary Latin American Architecture
Spring 2024 3 credits ARC 560/660 / T/TH 5:05-6:10PM/ 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 a semester-long analysis project of a specific building to include a 3D model and a research paper to explain historical and cultural context as well as design process and solution of the architect.
The **fourth industrial revolution** is characterized by the integration of technologies into everyday objects and blurring the boundaries between physical and digital realms. Information technology and automation converge in innovative ways and change our surrounding environment. We have “things” that measure and sense activities and changes and broadcast them to the rest of the world via a network. We call this the **“Internet of Things”** (IoT).

While IoT is penetrating every aspect of our lives, we, the architects, are slow in responding to this challenge! Smart cities, smart homes and smart personal devices are enveloping us, but we have yet to create many examples of “smart spatial design” or “smart architecture”.

Over the semester, students will analyze their context, will learn **basic electronics** and **basic programming** with the goal to build a simple sequence of working IoT prototypes.
In 1986, Terunobu Fujimori and Genpei Akasegawa founded the Street Observation Society in Japan. The members of this Society came together to search for moments of beauty found in ordinary, everyday places. The group’s activities were primarily a fusion of two complementary approaches to looking at the city including: historical fieldwork and the analysis of overlooked buildings throughout urban Japan; and the Dadaist sensibility of identifying and categorizing readymade objects lying latent in the streets of Tokyo.¹

Inspired by their efforts, MADE IN MIAMI will observe, analyze, and record the material culture and vernacular traditions of Miami, searching for the unique characteristics that arise from an understanding of the poetics of the prosaic. The course will be structured with informal lectures followed by a series of walks throughout the city’s key neighborhoods. Students will be asked to function as urban detectives, recording their discoveries (by way of photography and drawing) to uncover an alternate reading of the city not readily advertised or promoted in contemporary depictions of Miami.

Faculty: Prof. Adib Cure / Spring 2024

¹ Daniell, Thomas. “Just Looking, The Origins of the Street Observation Society” in AA Files 64, pp. 60-68.
RED 650/ARC 681: Complex Real Estate Transactions

Professor Mark L. Troen, FRICS
Spring 2024 - 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 multifaceted 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
- Financing & Deal Structures
- Acquisition & Site Selection
- Entitlements / Legal / Public-Private Sector Issues
- Sales & Leasing
- Design & Construction
- Management & Operations
- Development Marketing

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, & 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 insight into 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 investigate the fundamentals of how to analyze, develop, and operate a broad range of real estate development deals.

PREREQUISITES

Knowledge of real estate economics, market analysis, and finance through prior course completion or relevant /comparable work experience.

Thursdays 2:00 PM – 4:45 PM
Classroom Location TBD
University of Miami Campus
Coral Gables, Florida 33146

Mark L. Troen, FRICS
MRED+U / School of Architecture
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In the years since Mies van der Rohe’s death in 1969 his buildings across the world have been the object of varying types of preservation and stewardship. All of these different types of interventions on MIES buildings raise significant questions regarding the methods, techniques, and philosophy of restoration and the role they play in our understanding of modern architecture as cultural heritage. With the help of invited guests this seminar will explore the history of MIES and different types of preservation strategies for modern architecture. Students who take this seminar are invited to take part of the Docomomo US National Symposium to be held in Miami in May 29th-June 1st, 2024.
An intensive, interdisciplinary design and development charrette
Working daily over the course of the competition period, students analyze the competition location, generate a development strategy, and produce a comprehensive vision for the area’s transformation.

Location: Seattle
The specific site will be announced on Wednesday 03 January and the Project Brief will be released on Monday 08 January, which ULI lists as Day 1 of the competition.

Previous year requirements include two 500-word narratives on the design and finance strategies, respectively. A 72” x 36” presentation board provides a full representation of the development vision and a 20-slide PDF features highlights from the presentation board.

The faculty provide an overall structure with schedule and information sessions in addition to daily consultations which also include associated faculty and invited experts relevant to the individual team’s direction.

The primary goal is for each student to emerge with a significant understanding of the integrated process of originating a development proposal in its entirety, and representing the proposal as a transformative urban project and effective investment opportunity.

Team formation: Now - 06 November w/ Coordinator & faculty assistance
5 students representing (enrolled in) 3 disciplines, i.e. 2 from Architecture; 2 from Real Estate, 1 from Urban Design, or any other combination that produces 3 different disciplines and exactly 5 people

Team Registration: 06 - 15 November w/Coordinator & faculty assistance
ULI registration closes 17 November.

Start/Finish: Competition Brief Release on Monday 08 January 2024
Project Submissions on Monday 22 January 2024

Questions: jlombard@miami.edu; vvasconez@miami.edu; nbixby@miami.edu
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.