E L E C T I V E S

Spring 2021

capla.arizona.edu/courses
ARCHITECTURE ELECTIVES – Spring 2021

Please contact Sasha Wilson at s1wilson@email.arizona.edu (undergrad) or Emilio Romero at eromero@email.arizona.edu (grad) if you have difficulty enrolling in any of the architecture courses below.

THIS ELECTIVE LIST IS SUBJECT TO CHANGE: UPDATED 11/16/20

ARC 160C1 (Gen Ed Tier 1)
Architecture and Society (3cu) (fully online) Simone
The purpose of this course is to lay the foundation for architectural literacy and develop an understanding of architecture’s role in society through ancient times to present day. This is accomplished through studying the major components that affect architecture: region, culture, and technology. The basis of this knowledge is found in understanding the relationship between a society and the forms it creates, as the built environment has, a permanent and profound impact on personal health, productivity and happiness, and on community life. The course follows these factors chronologically through the history of world civilizations, from ancient civilizations to contemporary society in the east and west.

ARC 160D1 (Gen Ed Tier 1)
Sonora (3cu) (fully online) Lotze
A multi-disciplinary introduction to the Sonoran Region of Southern Arizona and Northwest Mexico. Providing the context for settlement long before our current political boundaries were shaped, the Sonora is a culture that spans time, human institutions, and political ideology. The course’s topics range from earth and natural sciences, social sciences, humanities, architecture, and landscape architecture. Self-guided self-selected field trips form the basis for written investigations; online discussions of texts and current topics broaden understanding of the region and the various ways it is experienced.

ARC 210 (ARCE)
Building Information Modeling for Engineers (3cu) T/TH 6:00pm – 7:15pm – Joel Mesik
This course focuses on the role of Building Information Modeling (BIM) in Architecture and Engineering. Students will learn the fundamental processes of BIM based on 3D computer drafting, including site analysis and data extraction, basic model building, dimensioning, planning, and elevations, parametric modeling, documentation, and 3D rendering.

ARC 304 (Gen Ed)
Visual Literacy: Communication in Photography, Graphics, Art, and Architecture (3) (Fully Online) Simone
Using historical, theoretical, and contemporary material, we will examine still and moving photography, graphics, and art as critical tools of formal and conceptual communication.

ARC 330 (ARCE)
On Light and Lighting (3cu) F 9:00am – 11:30am (Flex In Person) Kappl-Joy/Cordivari
This course discusses and references Light and Lighting in its various and often also unreconcilable ways – from its physical, optic and scientific realities and occurrences in Nature and Culture to the very Human Condition of perceiving, reading and interpreting its appearances. The course touches on Theory, History and Culture, Physics and Optics. Learn how to measure and calculate quantifiable aspects, analyze daylighting and electrical lighting, see and discuss the latest technology in the form of lamps and applications. Students will synthesize and apply this information and understanding in short design-build exercises.

ARC 461A/561A
Water Efficiency in Buildings (3cu) TH 12:30-3:00pm (Live Online) Crosson
Learn methods and advanced techniques that conserve urban water usage while promoting water harvesting, water reuse, and water energy generation technologies in and around buildings. Upper division undergraduate student, graduate standing or permission of instructor.

ARC 461M (SBE)
Energy Efficient Design (3cu) (fully online) Youssef
This course investigates building energy performance, assessment, and energy conservation strategies, such as building form and orientation; passive solar design; building envelope materials and components; natural ventilation; and active solar design. Buildings will be investigated in stages (basecase, passive design, active design, and net-zero) and based on a series of prerecorded building walkthroughs that provide hands-on experience. Students will explore the relationship between each stage and the process of advancing from one stage to the next. Cost-efficiency and return on investment will be investigated for each. A net-zero design that reduces consumption while sequestering greenhouse gas will result.

ARC 461N (SBE)
Energy Auditing and Modeling (3cu) (fully online) Youssef
This course teaches energy modeling for various stages of design, with cost implications. Building energy modeling is essential to respond to the requirements of new green building codes and clients seeking high performance buildings. Students will gain a clear, in-depth understanding of the theory and practice of several industry-based building energy modeling software. The principles of ASHRAE’s 3 level energy audit, which close the gap between anticipated design and actual performance, will be introduced. Students will learn to perform a detailed Level-2 energy audit through a virtual site visit.

ARC 471S (SBE)
History + Theory IV: Contemporary Architecture and Urban Theory (3cu) (Fully Online) Robinson
This critical survey of contemporary urban and architectural theory will concern itself with the key debates, strategies, and tactics deployed by theorists and design practitioners. Using a thematic approach, theoretical texts, blogs, films, art, as well as exhibitions will familiarize students with important social, economic, political, and technological agendas that have shaped the design the built environment and public realm. Through lectures, discussions, and assignments, students will hone their critical thinking skills and learn to analyze and comprehend the complexity of architectural and urban conditions now and in the future.

Updated 11/16/2020
ARC 493/593 Internship (Mary Hardin)
UA Student Internships are based on the recognition that experiences beyond the classroom enrich professional and personal growth. Students work, for prevailing wages, in a professional office while completing on-line course assignments. The assignments are designed to aid students in initiating their NCARB and AXP records, document work hours appropriately, and reflect upon professional learning experiences. If a student has a job in a professional office lined up for this coming semester, they may earn credit for a Practice Elective while logging their AXP hours. Students earn one credit unit for every 45 hours worked in a firm - up to 3 credit units. Assignments are set up in D2L to document the office experience and require no additional academic work.

ARC 496B/596B (section 002)
History + Theory Elective: Trans Journal (3cu) T 5:00pm – 7:00pm (Flex In Person) Robinson
This is a team-based course designed to instruct students on a variety of professional and academic skills related to the creation of a student-edited journal. Through group and individual exercises, students will learn how to be critical editors of written and graphic content.

ARC 496B/596B (section 003)
History + Theory Elective: Material Matters Seminar (3cu) W 8:30am – 10:45am Hoffman
Matter Versus Material: An overview of material assembleings in architecture and the theoretical understanding of matter upon which they are based. Material Culture: A discussion of the relationship between matter, material and culture; how social reality and questions of meaning are grounded in our understanding the physical world and the architecture that surrounds us. The discussion will trace how material matters are addressed in theories of architecture from the late 19th century to the present and informed by an in-depth analysis of case study examples. Contemporary Material/Matter Practices: An introduction to the work of the Cluster faculty and related areas of research that can support the development of a Capstone Project.

ARC 496D/596D (MSArch)
Social and Behavioral Issues in Built Environments (3cu) T 9:30am – 12:00pm (Live Online) Engineer
This course introduces students to social and psychological issues in architecture and urban design and to the burgeoning field of environmental and behavior. Students will examine social and behavioral factors in environmental design through case studies, critical thinking and discussions, and small-scale design exercises. A variety of built environments will be discussed, ranging from building interiors to parks, urban plazas, streets, and sidewalks. Students will understand how to apply the outcomes of environment-behavior research to their design projects and existing places and spaces. As future designers committed to social responsibility, students must anticipate and respond to people’s needs. Ignoring these needs not only leads to costly errors, but also negatively influences wellbeing, productivity, and performance.

ARC 497B/597B (section 001) (HBE)
Health and Wellbeing in the Built Environment (3cu) TH 9:30am - 12:00pm (Live Online) Engineer
What we see, hear, and breathe affects our wellbeing. Consequently, designers have a profound impact on the people who inhabit their buildings. This course will offer degree candidates experience in the scientific understanding needed to capitalize on advancements in design informed by research. Students who can not only understand, but translate existing research into practice will be more competitive in the market and have a larger impact. The course begins with a primer on scientific literacy in the context of design, followed by modules that dive into the physiology, psychology, and design implications related to our senses. (Visual, Haptic + Aural, Olfactory, and Biophilic).

ARC 497B/597B (section 004)
Sustainable Urban Design (3cu) T 12:30 – 3:00pm (Live Online) Crosson
By 2050, 70% of the world’s population will be urban. The greatest challenges to our cities will be in sustainability, particularly in the least developed countries where the pace of urbanization is the fastest. In this course a critical issue in sustainable urban design is identified every week in lecture and characterized through a global case study: Latin America (Rio de Janeiro), Africa (Nairobi), Europe (Paris), Russia (Moscow), India (Mumbai), China (Beijing), North America (Los Angeles), and the Middle East (Tel Aviv). The sustainable urban theory with corresponding design implications are demonstrated through the case study. Concepts are then developed through four projects. The term sustainable means able to be maintained at a certain level or degree. In this course, the term sustainability is used to reference a desired equilibrium between the built and natural environments within the global trends of increased densities and resource demands.

ARC 499 P3 Colloquium Critical Practices (Chris Trumble)
This course is dedicated to the coordination of the Critical Practices Research Cluster. Each participating student has a unique curricular plan; this course will serve as forum to aggregate and synthesize these diverse experiences and optimize their application to the Moyo Refugee Settlement project. Participants will also define project conditions, objectives and performance criteria.

ARC 499/599 FBD: Ind Study (Chris Trumble)
This course is dedicated to the coordination of students delivering Freedom by Design (FBD) projects. Topics include professional practice ethics and methodologies related to client relations, pre-design, design, development, construction and delivery.

ARC 535 Forms of Critical Inquiry and Expression (3cu) (MW 10:00-10:50 am lectures (Live Online); Friday am discussion sections Flex In-Person) (Hollengreen, Weinstein, Wachter)
This course provides exposure to major themes in contemporary theories of architecture and other areas of cultural production and professional practice, as they are enunciated in text, image, film, and three-dimensional media. Knowledge of current and emerging ideas shaping the field is critical to being able to situate oneself intellectually, socially, and ethically. The course will encourage critical analysis of these ideas and thus serve as a bridge between foundational courses in the master’s programs and more self-directed work in the final semesters of one’s study. The final work of the class is a research-informed design brief meant to inform masters’ Capstone projects, theses, or reports.
Learn to audit REAL BUILDINGS in collaboration with community partners in Moyo, Uganda and Tucson

Make a REAL IMPACT on building water use!

COURSE DESCRIPTION / SPRING 2020 / ARCH 461a/561a
The course focuses on the effective use of water and its impact on energy consumption and building performance. It emphasizes the issue of water/energy nexus through a proposed four-faceted body of knowledge addressing 1) Water Conservation, 2) Water Harvesting, 3) Water Reuse, and 4) Water Energy Generation Technologies. Although water reduction and water harvesting have recently become more common in green buildings, water reuse and water energy generation are relatively newer technologies that demonstrates greater promise to contribute to the affordability of water and its use as alternative energy sources. The course also emphasizes the environmental benefits from integrating water saving strategies to modify thermal conditions—that would otherwise use energy to achieve—while the saved water will facilitate exterior landscape development. Course delivery will include calculative and empirical methods, use of computer simulation, design nomographs, and hands on inquiry based learning through selected laboratory sessions.
UA Student Internships are based on the recognition that experiences beyond the classroom enrich professional and personal growth. Students work, for prevailing wages, in a professional office while completing on-line course assignments. The assignments are designed to aid students in initiating their NCARB and AXP records, document work hours appropriately, and reflect upon professional learning experiences.

**Training and practice in actual service in an architectural, construction, or design-related firm.**

**EARN ACADEMIC CREDIT WHILE YOU WORK!**

If you have a job in a professional office lined up for this fall, consider doubling down and earning credit for a Practice Elective while you log your AXP hours. You earn one credit unit for every 45 hours worked in a firm - up to 3 credit units. Assignments are set up in D2L to document your office experience and require no additional work. *By instructor’s permission.*

**OFFICE HOURS BY APPOINTMENT**

MARY HARDIN

mchardin@arizona.edu
MATERIAL MATTERS SEMINAR

ARC 496B  Dan Hoffman

**Matter Versus Material:** An overview of material assemblages in architecture and the theoretical understanding of matter upon which they are based.

**Material Culture:** A discussion of the relationship between matter, material and culture; how social reality and questions of meaning are grounded in our understanding the physical world and the architecture that surrounds us. The discussion will trace how material matters are addressed in theories of architecture from the late 19th century to the present and informed by an in-depth analysis of case study examples.

**Contemporary Material/Matter Practices:** An introduction to the work of the Cluster faculty and related areas of research that can support the development of a Capstone Project.
This course introduces students to social and psychological issues in the built environment and to the field of environment and behavior. Students will examine social and behavioral factors in environmental design through case studies, critical thinking and discussions, and small-scale design exercises. A variety of built environments will be discussed, ranging from building interiors to public and community spaces such as urban plazas.

Students will understand how to apply the outcomes of environment-behavior research to their design projects and existing places and spaces. As future designers committed to social responsibility, students will learn to anticipate and respond to people’s needs. Understanding these needs avoids costly errors as well as positively influences health, wellbeing, productivity, and performance.
By 2050, 70% of the world’s population will be urban. The emerging architect is tasked to design in an urbanizing world. This course teaches students the basic concepts, components, and tools of urban design. The categories of infrastructure + environment, governance + economy, and society + community structure the course. As the world continues to urbanize, the greatest challenges to our cities will be in sustainability, particularly in the least developed countries where the pace of urbanization is the fastest. Each week, a critical issue in sustainable urban design is identified in lecture and then characterized through a global case study. Fourteen cities from 8 regions are inspected for challenges and design solutions, including Latin America, Africa, Europe, Russia, India, China, North America, and the Middle East. By linking theory with practice, students understand how some of the most pressing problems of cities can be addressed through sustainable urban design and locate where architects have agency to propel positive solutions. Three research projects are required.
HEALTH AND WELLBEING IN THE BUILT ENVIRONMENT
A TOUR OF THE SENSES AND BEYOND

MODULE 1: VISUAL

 MODULE 2: HAPTIC + AURAL

TAKE A TOUR OF THE HUMAN SENSES AND LEARN HOW SPACES IN WHICH WE SPEND 90% OF OUR LIVES AFFECT OUR HEALTH AND WELLBEING

MODULE 3: OLFACTORY

 MODULE 4: BIOPHILIA

ARCH 497B/597B - 001 | SPRING 2021 | 3 CU | THU 9:30 - 12:00 PM | LIVE ONLINE
COURSE ELECTIVE IN THE P3 CLUSTERS: 1. CRITICAL PRACTICES & 2. (META)PHYSICS OF LIGHT
INSTRUCTOR: ALTAF ENGINEER, PH.D., RA, LEED AP BD+C | AENGINEER@EMAIL.ARIZONA.EDU
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Delivery Method</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>LAR 150B1</td>
<td>American Design on the Land (Gen Ed Tier I Individuals and Societies)</td>
<td>3</td>
<td>Fully Online</td>
<td>Chorover</td>
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<td>(3) Fully Online, Chorover</td>
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<td>This course is broad exploration of individuals from diverse backgrounds</td>
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<td>who have helped shape the American landscape. Examination of original</td>
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<td>writings, and built environments including cities, parks, gardens,</td>
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<td>vernacular expressions, and preserves of wild, scenic, and cultural</td>
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<td>landscapes will provide the framework for discussion about landscape</td>
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<td>design as a comprehensive art form and dialog between man and nature.</td>
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<td>PLG 202</td>
<td>Cities of the World: An International City Planning Perspective</td>
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<td>Fully Online</td>
<td>Chorover</td>
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<td></td>
<td>(Gen Ed Tier II - Individuals and Societies) (3) Fully Online, Chorover</td>
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<td>More than half of humanity lives in cities. This course surveys international</td>
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<td>cities to help students understand the world's urban systems, global</td>
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<td>variations in urban environments, and the diversity in organization</td>
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<td>and functioning of cities. Using a case study methodology, the class</td>
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<td>compares and contrasts contemporary paths of urban development. Students</td>
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<td>gain an introduction to a variety of urban forms and approaches to</td>
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<td>sustaining the urban environment worldwide.</td>
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<td>The class examines the interplay between human activities and land, water,</td>
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<td>and energy policies that shape the use of urban resources to produce the</td>
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<td>built environment. Students will be introduced to the tasks and methods of</td>
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<td>urban planning and consider what determines variations in urban design,</td>
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<td>land use, transportation, energy use, water consumption, infrastructure</td>
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<td>plans, economic development, and urban social functions. Students will</td>
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<td>learn about improving the quality of urban environments by comparing</td>
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<td>contemporary cities, both industrialized and developing cities.</td>
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<td>PLG 211</td>
<td>Sex in the City (Gen Ed Tier II Individuals and Societies)</td>
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<td>Fully Online</td>
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<td>(3) Fully Online, Iroz-Elardo</td>
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<td>This class is designed to illuminate how gender - as an identity - and sex</td>
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<td>- as a series of public and private activities, a commodity or economic</td>
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<td>determinant, and a part of identity - shape urban communities and are</td>
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<td>themselves shaped by urban planning. This class explores the implications</td>
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<td>of what it means to plan for different people in a variety of urban contexts-</td>
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<td>e.g., transportation safety, homeless women shelters, perceived fear of</td>
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<td>public space, design of public parks, accessibility of groceries- while</td>
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<td>addressing the overarching questions:</td>
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<td>. Who plans for cities? And for whom are cities planned?</td>
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<td>. How are communities shaped by urban planning and policy?</td>
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<td>. Why should we think about the different ways people experience, use, and</td>
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<td>are shaped by cities? And,</td>
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<td>. Why does it matter to think about gender in the context of urban planning?</td>
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<td>PLG 256</td>
<td>Sustainable Cities and Societies (Gen Ed Tier II Individuals and Societies)</td>
<td>3</td>
<td>TuTh 3:30pm -</td>
<td>Stoker</td>
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<td>(3) TuTh 3:30pm - 4:45pm Live Online, Stoker</td>
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<td>4:45pm Live</td>
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<td>Urbanization and cities within the sustainability framework. Global</td>
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<td>Online, Stoker</td>
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<td>urbanization, social justice, environmental equity, growth management,</td>
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<td>&quot;the new urbanism.&quot; International cases. Web based projects.</td>
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# School of Landscape Architecture and Planning Electives - Spring 2021

## Undergraduate

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Schedule</th>
<th>Location</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>SBE 202</td>
<td>Professional Communication and Presentation (3)</td>
<td>3</td>
<td>TuTh 9:30am - 10:45am</td>
<td>Live Online, Iuliano Iori, Fully Online, Sami</td>
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<td>SBE 222</td>
<td>History of The Built Environment II (3)</td>
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<td>Fully Online, Zuniga Teran</td>
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<td>RED 301</td>
<td>Introduction to Real Estate (3)</td>
<td>3</td>
<td>W 4:00pm - 6:30pm</td>
<td>Haury Anthro Bldg, Rm 129, Marian</td>
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<td>SBE 301</td>
<td>Introduction to Design Thinking (4)</td>
<td>4</td>
<td>WF 11am - 1:30pm</td>
<td>Architecture 104 &amp; Flex In-Person, Bean Iori, Fully Online, Cederberg/Bean</td>
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## Undergraduate and Graduate

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Schedule</th>
<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>PLG 408/508</td>
<td>Climate Action Planning (3)</td>
<td>3</td>
<td>Tu 10am - 12:30pm</td>
<td>Architecture, Rm A304Y, Keith</td>
<td>Keith</td>
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- This course explores effective oral communication within the professions of the built environment with the intent of increasing student understanding of and competency in oral communication in preparation for entry into the world of practice.

- The study of the history of the built environment provides a general understanding on how human societies have adapted the form of the built environment to their unique cultural, political, economic, and environmental challenges across time. This is the second course out of two courses and they are organized in modules that correspond to different climatic zones. These are: 1. Hot and arid, 2. Hot and humid, 3. Cold and arid, 4. Cold and humid, 5. Temperate and arid, 6. Temperate and humid. This second course includes the last three climate zones (cold and humid, temperate and arid, and temperate and humid).

- This is an introductory course that provides students interested in the property market introduction and exposure to its people, vocabulary, economic forces, regulatory and environmental frameworks, capital markets, and transaction processes. Completion of the course will prepare students well to take state real estate sales licensing courses if they choose to pursue such a pathway.

- This course introduces students to the essential methods of visual communication and ordering systems through a series of interrelated exercises. Techniques such as investigative sketching, freehand drawing, and digital design communication are considered in relation to their potential to reveal the world around us with a heightened sense of awareness. Issues such as place, material, structure and enclosure will be explored empirically and conceptually at a variety of scales and applications. Importantly, this is an interdisciplinary based studio -- students enrolled in this course will have the ability to engage in a variety of different design strategies.

- Cities are on the front-lines of climate change as the built environment is impacted by increasing sea level rise, floods, drought, wildfires and urban heat. This course explores the challenges and opportunities of planning and designing the built environment for climate adaptation and resilience. Urban resilience is the capacity of cities and their interconnected systems to survive, adapt, and thrive no matter what chronic stresses and acute shocks they experience. Students will learn a range of climate impacts on the built environment, examine different planning and design strategies to increase urban resilience, and explore real world case studies of cities planning for urban resilience. Urban resilience will be considered through a variety of planning and design scales -- buildings, landscapes, neighborhoods, cities, and regions. This course emphasizes inclusive planning processes that engage the most vulnerable populations to climate impacts. Guest lectures from researchers and practitioners will also be featured to share their professional experiences in connecting climate science to planning and design efforts.
# School of Landscape Architecture and Planning Electives - Spring 2021

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Section</th>
<th>Instructor(s)</th>
<th>Description</th>
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<tbody>
<tr>
<td>RED 401/501</td>
<td>Intro to Real Estate Finance (3) Fully Online 7W1, Bidolli</td>
<td></td>
<td>Bidolli</td>
<td>The focus of this course is the analysis of capital formation in commercial real estate and examination of the tools real estate investors use to make investment decisions. The course includes sections on capital sources, investor concerns and hurdles, data sources, investment fundamentals and tools, discounted cash flow modeling, and pre-tax equity distributions for a range of partnerships.</td>
</tr>
<tr>
<td>RED 421/521</td>
<td>Placemaking and Urban Form (3) Fully Online 7W2, Zuniga Teran</td>
<td></td>
<td>Zuniga Teran</td>
<td>This course will introduce students to the fundamental concepts of urban design and urban form and the role these play in placemaking in cities, towns and suburbs. The course will cover the work of urban design theorists, variables that impact a community's sense of place, challenges and opportunities in modern city design, and methods to design more livable and sustainable cities.</td>
</tr>
<tr>
<td>LAR 423/523</td>
<td>Landscape Ecology (3) TuTh 9:30am - 10:45am Live Online, Livingston</td>
<td></td>
<td>Livingston</td>
<td>The emphasis of this course is the understanding and subsequent use of principles of landscape ecology. This will be accomplished through the study of how spatial heterogeneity in landscapes influences various ecological processes in natural and created landscapes.</td>
</tr>
<tr>
<td>LAR 430/530</td>
<td>Intro to Digital Media (2) W 9:30am - 12:30pm Live Online, Mueller</td>
<td></td>
<td>Mueller</td>
<td>This two-credit studio exposes students to basic and advanced elements of media design communication in landscape architecture and planning. Through tutorials and exercises, using several industry-standard computer applications, we will work to increase our knowledge and skill in computer graphic conventions and techniques.</td>
</tr>
<tr>
<td>PLG 469/569</td>
<td>Transportation and Land Use (3) M 1pm - 3:30pm Live Online, Currans</td>
<td></td>
<td>Currans</td>
<td>Transportation and Land Use (T&amp;LU) is an elective course to satisfy the Transportation Concentration requirements for the Masters in Planning program within the College of Architecture, Planning and Landscape Architecture (CAPLA). The objective of this course is to introduce planning students, and those from other majors and programs, to concepts and methods used in the arena where transportation planning and land use development intersect. This course will discuss various theories related to linking transportation investments, land use, and travel behavior, and will consider policy approaches used to address urban planning issues such as congestion, automobile dependence, and planning for infrastructure investments.</td>
</tr>
<tr>
<td>PLG 472/572</td>
<td>Environmental Land Use Planning (3) Th 1:30pm - 4:30pm Live Online, Li</td>
<td></td>
<td>Li</td>
<td>This course focuses on the complex linkages between human and natural systems. Environmental planning utilizes methodologies which are systematic, iterative, and transparent and relies on integrating a wide spectrum of contemporary environmental issues in order to achieve more sustainable land use outcomes. As an interdisciplinary course, it draws from the fields of planning, geography, design, land use law, public policy, economics, natural science, and engineering among others. This course aims to equip students with a broad knowledgebase which focuses on landscape components and processes. Further, students will develop the necessary land use analysis and management skills in order to help guide land use decision making, engage stakeholders, and minimize/mitigate conflict between natural and built systems in an effort to produce more sustainable land use patterns and plans.</td>
</tr>
<tr>
<td>PLG 476/576</td>
<td>The Land Development Process (3) TuTh 12:30pm - 1:45pm Live Online, Bidolli</td>
<td></td>
<td>Bidolli</td>
<td>A case-oriented approach to site selection, rezoning, financing, architectural design, economic feasibility, and other facets of the land development process.</td>
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</table>
### School of Landscape Architecture and Planning Electives - Spring 2021

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Time</th>
<th>Location</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLG 458/558</td>
<td>Geodesign Studio (3)</td>
<td>Th 9am - 11:45am</td>
<td>Architecture, Rm A304Y &amp; Flex In-Person, Li</td>
<td>Geodesign is a rapidly evolving approach which integrates geographic science into the design process. Although there are many different definitions about what is Geodesign, there exists a consensus about the importance of geographic information and geospatial technologies in design. To a large extent, the recent and enthusiastic emergence of Geodesign is in part a product of ongoing innovations in geographic information and geospatial technologies.</td>
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<tr>
<td>LAR 497J/597J PLG 497J/597J</td>
<td>Documentation and Interpretation of the Historic Built Environment (3)</td>
<td>Tu 5pm - 7:30pm</td>
<td>Architecture, Rm 200 &amp; Flex In-Person, Chorover/Erickson</td>
<td>Examines methods to document buildings, districts and cultural landscapes and methods to interpret historical and architectural significance. Focuses on historic built environments of Greater Southwest including semester-long service-learning project applying documentation and interpretation methodologies. <strong>Enrollment Requirement:</strong> ARC 471F</td>
<td></td>
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<tr>
<td>LAR 541</td>
<td>History and Theory of Landscape Architecture (2)</td>
<td>F 10am - 12pm</td>
<td>Live Online, Macmillan Johnson</td>
<td>This 2-credit course examines landscape architecture from an historic and contemporary perspective as reflected in theory and practice. Through case reviews of built works including significant estates, gardens, urban designs, park systems, corporate landscapes, restored natural sites, heritage sites, waterfront projects, resorts, etc., We will explore the evolution of design ideology and application of theory in the practice of landscape architecture.</td>
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</tr>
<tr>
<td>RED 605</td>
<td>Advanced Real Estate Finance: Software &amp; Technology (3)</td>
<td>W 9am - 11:30am</td>
<td>Architecture, Rm 200, Marian lorl Fully Online, Bidolli 7W2</td>
<td>This course is designed to advance students' knowledge of the industry leading data and software required to succeed in real estate development and finance. Drawing on tools from CoStar, Real Capital Analytics, ARGUS, and Site To Do Business, the class illustrates use of the programs in the context of solving real estate development and finance problems.</td>
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<tr>
<td>PLG 560 RED 560</td>
<td>Land Use Planning Law (3)</td>
<td>M 5:30pm - 8pm</td>
<td>Live Online, Kafka</td>
<td>Review of the principal legal devices available to implement planning decisions on community design (official map, subdivision control), the use of land (nuisance, covenants and zoning) and housing needs (including urban renewal). Special attention will be paid to the significance and legal effect of a comprehensive plan and to the social and economic effects of planning decisions.</td>
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</tbody>
</table>
LAR 150B1 American Design on the Land

This course is a broad exploration of the natural and built American landscape and how the unique character of American culture continues to shape this place. With readings, discussions, and videos, students will examine dynamic dialogue between humans and nature to understand the creation of the American landscape. Students will understand that both the built environments, such as cities, parks, gardens, and preserves of wild, scenic, and cultural landscapes can be interpreted as physical manifestations of different American ideologies.

Students will learn about the lives of everyday Americans as well as the contributions of great individuals from various cultural backgrounds and periods in time. These will include Native Americans, artists, architects, landscape architects, planners, natural and social scientists, political figures, businessmen and women and writers.
PLG 202 Cities of the World

GEN ED TIER II
INDIVIDUALS & SOCIETIES

This course surveys international cities to help students understand the world’s urban systems, global variations in urban environments, and the diversity in organization and functioning of cities.

The class examines the interplay between human activities and land, water, transportation, and energy policies that shape the use of urban resources to produce the built environment.

Learn about the ways in which cities are becoming more vibrant, equitable, greener and more sustainable.

Course Objectives

After completing the course requirements, students should be able to:

- Understand the history of the development of cities and how cultural, political, environmental, physical, and economic factors have impacted their development.
- Recognize the impact of practitioners in planning and associated fields of civil engineering, landscape architecture, environmental design, cultural geography and architecture have on the form and function of cities.
- Identify key components that help create a great city while also explaining the complexities involved in how cities operate.
- Discuss the future of city design and how cities can be better designed for social justice, economic equality and environmental sustainability.

CONTACT INFORMATION
Gina Chorover, Lecturer
gchorove@arizona.edu
This course explores effective oral communication within the professions of the built environment with the intent of increasing student understanding of and competency in oral communication in preparation for entry into the world of practice.

**Learning Outcomes**

Our goal with this course is for you to build the skills necessary for a life-long pursuit of professional education and mastery of skills as an essential element of success in professional communication.

As a result of successfully completing this course, students should be able to:

- Show and use rhetorical theory and strategies for verbal and nonverbal communication;
- Design an effective message including the selection of appropriate content, organizational structure, and supporting media;
- Deliver effective oral presentations with confidence, clarity, and presence utilizing audience analysis, gestures, inflection, vocabulary, and supporting visual aids;
- Analyze and constructively critique one’s own presentation, both content and delivery, as well as that of members of a project team;
- Utilize ethical standards to help guide professional and responsible communication.

**Formats**

Live Online - TuTh 9:30 - 10:45 A.M.
Zeinab Sami, Instructor
sami@arizona.edu

Fully Online - 15 week session
Joey Iuliano, Instructor
jiuliano@arizona.edu
PLG 211
SEX & THE CITY

Urban Planning Informed by Gendered Use of Space, Intersectional Experiences, & Critical Theories

Read academic & popular media examples each week
—
Respond in video discussions or short writing prompts
—
Write & design a magazine article for final project
—
Learn to use Adobe InDesign

Meets Diversity and Tier 2 Individuals & Society Gen Ed Requirements!

Online
Fall 2020 & Spring 2021
GEOG 256: Sustainable Cities and Society
Open to students from any department that are seeking to fulfill Gen Ed: Tier 2 “Individuals and Societies credit” or any student interested in the following topics:

- Energy, Climate Change, and Air Quality
- Water, Agriculture, and Biodiversity
- Urban Planning and Design
Are you interested in learning more about real estate, the single largest component of wealth in society? In this introductory course, you will learn real estate vocabulary; how to purchase, sell, and improve real estate (from a home to commercial investment properties); and legal, financing and tax considerations.

Guest speakers with over 100 years combined experience include residential and commercial real estate brokers, title executives, real estate attorneys and local executives involved in development and commercial real estate investment. You will also learn about career opportunities in all these fields—some of which have unlimited income possibilities.

This is a required course in the brand new University of Arizona Minor in Real Estate Development.

Our in-person class is limited to 30 students, so enroll early.

Contact Information
James B. Marian MRE CCIM, Lecturer
jbmarian@arizona.edu
PLG 408/508 Climate Action Planning

Cities are on the front lines of climate change as they emit the majority of the world’s greenhouse gases and are increasingly impacted by sea level rise, floods, drought, extreme heat, and wildfire.

This course explores climate action planning and the challenges and opportunities of planning for more sustainable and resilient cities.

Students will learn about greenhouse gas emissions accounting, vulnerability assessments, localized climate change projections, climate impacts, and how cities can both mitigate greenhouse gas emissions and plan for climate adaptation.

Climate action planning will be considered through a variety of professional disciplines and scales including neighborhoods, cities, and regions. This course emphasizes inclusive and equitable planning processes that engage those most vulnerable to climate impacts.

MEETING TIME
Live Online - Tuesdays 10:00 A.M.- 12:30 P.M.

Learning Outcomes
After completing the course requirements, students should be able to:

• Demonstrate an understanding of how cities contribute to greenhouse gas emissions and how they are impacted by climate change.

• Critically analyze climate action planning strategies to decrease local greenhouse gas emissions and increase resilience to climate impacts.

• Compare, contrast, and evaluate climate action planning efforts undertaken by cities of diverse sizes, demographics, and geographies.

In addition to the above learning outcomes, graduate students should be able to:

• Develop research skills by writing an original research proposal, conducting a literature review, finding and analyzing the appropriate data, and summarizing results with recommendations.

• Demonstrate professional presentation skills with a focus on both verbal and visual presentation techniques.

CONTACT INFORMATION
Ladd Keith, Assistant Professor
ladd@arizona.edu
PLG 458/558 Geodesign Studio

Geodesign is a rapidly evolving approach which integrates geographic science into the design process.

Although there are various definitions about what is Geodesign, a consensus exists regarding the importance of geographic information and geospatial technologies in planning and design. Geodesign inspires GIS professionals and designers and planners to explore new ways to collaborate. The goal of this class is to introduce recent development of geographic information and geospatial technologies, and to explore their applications in planning and design.

Geodesign will open many new opportunities for the traditional design communities of landscape architecture and planning. People will realize the power of good design blended with spatial information and analysis.

—Jack Dangermond, ESRI Founder and President.
PLG 469/569 Transportation and Land Use

During the COVID-19 pandemic, the US has witnessed the largest disruptive event in transportation in our country’s modern history. In response, transformations in behaviors and technologies have shaped how we use both public and private spaces—restricting (non)essential activities, telecommuting, retail curb-side pick-up, socially distanced public transit. During this time, we have seen firsthand the dynamic interplay between the activities that people need or want to do and the transportation systems that facilitate or inhibit them.

In this course, we explore the interdisciplinary theories and policies that address this interplay between travel and activity behaviors—transportation and land use. Through this lens, we will also examine how various pandemic responses, travel and/or activity restrictions, and innovations in technology may have facilitated changes in behaviors in the short and long term.

For the practical project this year, students will create a transit-oriented development plan to integrate Bus-Rapid Transit along the Broadway corridor for the City of Tucson. In this project, we will practice implementing what we have learned in the course to strengthen the relationship between transportation and land development along this corridor.

MEETING TIME
Live Online - Mondays 1:00 - 3:30 P.M.
PLG 472/572 Land Use Planning Analysis

The use of land is perhaps the most significant driving force of human impact on the natural environment.

Currently, only 5% of the Earth's land surface area is unaffected by humans. Environmental land use planning is a critical component of various land planning, design, and management efforts.

This course aims to equip students with a broad knowledge base of the complex linkages between human and environmental systems. Furthermore, students will develop essential land use analysis and management skills to help guide land-use decision making, engage stakeholders, and minimize/mitigate conflicts between the natural and built environments in order to produce more sustainable land-use patterns and plans.

This interdisciplinary course is recommended for students from planning, landscape architecture, architecture, geography, public policy, economics, environmental science, engineering, and related fields.

CONTACT INFORMATION
Shujuan Li, Associate Professor
shujuanli@arizona.edu