

## ARCH and CAP Elective Options- Spring 2024

All ARCH and CAP electives require sophomore-standing or higher. Some courses may have additional pre-requisites; see description for pre-requisite information. All meeting days/time are subject to change; please double-check listing in UCDAccess.

Classes offered by *Historic Preservation (HIPR)*, *Interior Design (INTD)* and *Landscape Architecture (LDAR)* contained in this guide may apply only as “CAP Electives” (not ARCH Electives) for students declared in the Arch. Design or Arch. Studies tracks (Fall 2021 or later). HIPR, INTD and LDAR courses may count toward “ARCH Electives” *only* for students declared in the pre-Fall 2021 degree requirements and who do NOT have “CAP Elective” requirements. Please check with your CAP academic advisor if you are unsure how these courses will apply for you.

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- **ARCH 3600.H01 – Special Topics Cultural: Necessitating Convergence**

- This seminar will investigate issues involving the foundations of our cultural outlook towards climate change, technology, and Nature to speculate upon how radical departures from our traditional practices might emerge – departures that are authentically transdisciplinary and truly transgress the boundaries of the conventional definition of a “project”. A positive consequence will be to expose designers, architects, and urban theorists to the broader philosophical issues involving climate change, the magnitude of its challenges, and the potential relevance of other disciplinary research agendas in addressing our necessary adaptation to its consequences. The emergent dialogues will be a means towards creating more broadly informed transdisciplinary design attitudes that redesign the “process” by pondering potential “team” structures more adept at integrating varied expertise to guide an entire “project” from initial concepts to determining the appropriate life cycle of the ensuing infrastructure.

- **ARCH 3600.002 – Special Topics Cultural: Film & The City**

- The parallel formations of cinema and the Modern Metropolis by the turn of the 19th century affected a radical social, cultural and perceptual shift. This course investigates the ways in which the emerging urban fabric of the metropolis and the aesthetics of the newly invented art of film simultaneously and inseparably influenced one another.

While the appearance of the modern city served as one of the main themes in early 19th century films, the cinematic gaze was conspicuously responsible for the shaping of the modern metropolis’ aesthetics. This intersection introduced not only new modes of viewing the ordinary, but also—and more importantly—a collapse of the experience of time and space. The implications of this collision—and the dominant role it played in the rearrangement of both subject’s mental life and the public space—will serve as the core of our study.

- **ARCH 3600.003 – Special Topics Cultural: Architecture & Nature**

- The emerging fusion between human needs and wants and the natural environment is unprecedented. Blurring the limits between the two creates an opportunity for a deeper understanding of the natural world and systems that materialize as the foundation for meaningful investigation. Fostering contemplation of the relationship between nature, land, and building may, in turn, empower us to begin to frame a new discourse for sustainable design, passive architectural strategies, and building technology.

This course is experimental rather than numerical. It is about contemplating, assessing, and weaving ecological ideas with other influences in design. Because of the tremendous physical impact of the human dwelling on the natural environment, the course will focus on architecture and its relationship to the land and environment as a low-impact, physical intervention from the following three perspectives:

*Within the structure*– an internal, personal, contemplative awareness focuses on balancing the emotional, spiritual, social, and physical elements through spatial experiences connected to the natural environment.

*Outside of the structure*– an external holistic experience that (re)connects to context, land, and the natural environment.

*The Interface*– the transitional threshold, between in and out, separating, blurring, and (re)connecting.

Through lectures and individual and group projects, students will explore the integration of the natural environment with design, understand the relationship between land and building, explore current ecotechnology, and analyze traditional building practices.

- **ARCH 3600.004 – Special Topics Cultural: Embodying Memory**

- In response to public tragedies, architects, designers, and artists are often called to respond by creating sites of public memory. Such monuments, memorials, and sites can serve to create a common spatial frame for otherwise disparate experiences and understandings. However, “memory” is far from a neutral recollection of the past. How and why are memorial sites constructed? What is the power of mourning, of memory?

In Embodying Memory, we will explore a history and theory of memory in the form of monuments and memorials. Whose lives count as grievable, and whose do not? Who, exactly, is the “public” that public art serves?

As a class we will explore these questions through a variety of readings and case-studies. Students will be asked to develop discussion questions, to present on case-studies, and to develop responses to critical questions presented by the instructor. These responses will serve as the foundation for the final assignment, which will be to conceptualize a site of public memory through a series of sketches, collage, and/or digital media.

- **ARCH 3701.001 and 002- Survival Sketching**

- The focus of this course will be the sketchbook and the keeping of a sketchbook.

- **ARCH 4340 Theory of Structures II (*only applies as an ARCH or CAP elective in the Arch. Studies or Arch. Design tracks; does NOT apply as an ARCH or CAP elective if this course is already specified as a required course in the pre-Fall 2021 curriculum*)**

- Focuses on the relationship between architectural concepts and the selection of structural systems. Addresses the qualitative and quantitative analysis of reinforced concrete, steel, and wood structural systems and members.
  - **Pre-req: ARCH 3340 with a C- or higher grade**
  - **Recommended pre-req: Pre-Calc equivalent and PHYS 2010/2321**

- **ARCH 4440 Building Systems II** (*only applies as an ARCH or CAP elective in the Arch. Studies or Arch. Design tracks; does NOT apply as an ARCH or CAP elective if this course is already specified as a required course in the pre-Fall 2021 curriculum*)
  - Focuses on the environmental systems in commercial and other nonresidential buildings. Discusses natural and artificial lighting, HVAC systems, acoustics, vertical transportation and fire protection.
    - **Pre-req: ARCH 3110 or 2121**
    - **Recommended pre-req: Pre-Calc equivalent and PHYS 2010/2321**
  
- **ARCH 4612.001- A History of Modern Architecture**
  - This course traces the various theoretical and formal developments in European and American Architecture from the end of the 19th century through the 20th century. The works of a select group of architects will be examined and discussed in relation to the diverse body of goals and objectives, ideas and ideals that constituted the Modern movements in architecture.
    - **Pre-req: ARCH 2230**
    - **Note:** This course *may* be eligible for MArch advanced standing at CU Denver. Please check with CAP Undergraduate Advising to discuss whether you are eligible to complete this course for MArch advanced standing.
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- **HIPR 3250.001- Contextual Design in Historic Districts**
  - This classes focuses on design in the context of historic resources and in established neighborhoods with distinct features that are highly valued. These are places where preserving and enhancing community character are key objectives. The class investigates a range of approaches to alterations and additions for historic buildings and the design of new buildings in historic districts, including how these contribute to placemaking and livability. It also how design in historic contexts is guided by public policies, incentives and regulatory tools, especially design guidelines and zoning codes and provides an overview of how to decide which tools to use and how to develop them. The course will be thought-provoking, challenging concepts of “compatibility” in the context of historic resources. Case studies from across the nation will raise a series of challenging design questions about what “preservation” means while accommodating change. Other case studies are examples of success stories in the creative application of approaches to design in historic contexts. Guest lecturers with experience throughout the country will supplement the core curriculum provided by the instructor.
    - **Pre-req: Junior-standing or higher**
  
- **HIPR 3260.001- The Psychology of Historic Buildings: Why We Love Old Buildings**
  - The field of historic preservation is quickly evolving from its focus on buildings to a focus on people. This has required the field to broaden its approach to what we preserve, how we preserve, and for whom we’re preserving the built environment. To begin to understand this new direction, we must first consider our relationship to our surroundings more carefully. We may not always recognize it, but we’re deeply affected by the physical world around us on multiple levels. In this course, we’ll explore how preserving the built environment can impact mental health, physiological health, as well as our social health. The built environment affects our daily lives, our behaviors and feelings, and how we, in turn, help shape and influence what we choose to save for future generations.
    - **Pre-req: Junior-standing or higher**

- **HIPR 3510.001- Building Materials Conservation**
  - This course emphasizes the relationship between knowledge acquisition, professional judgement, and design modification. Topics include: 1) Historic Building Types & Methods, 2) Field and Lab Methods of Building Assessment, and 3) Management of Building Rehabilitation. The course takes an integrative approach to the scientific, aesthetic, managerial and legal dimensions of preservation.
    - ***Pre-req: Junior-standing or higher***
  
- **INTD 1005.001- Introduction to Interior Design**
  - This course is an introduction to the practice and principles of Interior Design. Providing an overview of design theory and process while exploring key elements such as furniture, texture, color, lighting, sustainability, and materiality shaping the built environment.
  
- **INTD 3686.001- Special Topics in Interior Design: Light & Color**
  - Students will understand and apply principles and theories of light and color in relation to environmental impact and well-being.
  
- **INTD 3686.002- Special Topics in Interior Design: Interior Materials**
  - Exploration of the various materials, finishes, and textiles available to the interior designer for interior specifications. Emphasis on interior finish materials and textiles.
  
- **INTD 4200.001- Interior Design Workshop**
  - This workshop introduces a design studio-style course with a hands-on approach. Exploring two and three-dimensional design. Emphasis on fundamental skills and ideas shared across design disciplines, JEDI, and sustainability. Creative processes, visual order, materials, and critical thinking are investigated through applied projects. Students will apply design processes and theories to basic interior design projects, as they learn additional graphic tools, techniques, and standards for effective design communication.
    - ***Pre-req: INTD 3100 and declared Interior Design minor***
  
- **LDAR 4420- Landscape Architecture Theory and Criticism**
  - Explores and assesses theory in landscape architecture and the concepts, ideas and discourses underlying contemporary design approaches. Emphasizes developing critical understanding of the roles and agency of theoretical inquiries in landscape architecture in relation to aligned disciplines.
  
- **LDAR 4430.001- Site, Society and Environment**
  - Sites are defined by relationships within environmental and social settings. Therefore, site design should be primarily ethical and secondarily technical. This course examines the implications of this idea through site methodologies, conceptual construction of site, site analysis and site typologies.
  
- **LDAR 4432.001- Landform Manipulation**
  - Focuses on the fundamental technical aspects of landscape architectural design and site engineering of related topography, grading, drainage design, landform manipulation, earthwork calculations, and road alignment.