

ARCHITECTURAL STUDIES (ARST)

ARST 221: Contemporary Preservation

This course introduces the multi-faceted field of contemporary preservation, examining fundamental principles and practices used today by historians, architectural conservators, designers, archaeologists, non-profit museum directors, and professional advocates, with attention given to issues of sustainability and adaptive reuse. Students learn through guest lectures, case studies, class discussion, field trips and "hands-on" projects.

Credits: 3

College: Jefferson Coll of Architecture & Built Environment

Prerequisites: AHST 206 [Min Grade: D]

Schedule Type: Lecture

ARST 221AC: Contemporary Preservation

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Credits: 3

College: Jefferson Coll of Architecture & Built Environment

Schedule Type: By Appointment - 1 student, Lecture

ARST 266: Building Conservation

Through site visits, demonstrations, laboratory exercises, guided research, and discussions, this course provides a comprehensive overview of historic building materials and the ongoing processes of material deterioration, contemporary approaches to treatment, and sustainability concepts of embodied energy and life cycle analysis as these pertain to building conservation. Topics include: investigative techniques for historic structures; diagnosing existing conditions, including non-destructive and laboratory testing methods; and designing appropriate interventions to remedy observed problems. Students will collect, present, critically review findings and formulate recommendations for conservation.

Credits: 3

College: Jefferson Coll of Architecture & Built Environment

Prerequisites: ARCH 102 or INTD 102 or LARC 102 [Min Grade: D]

Schedule Type: Lecture, Lecture/Studio Combination, Studio

ARST 300: Exhibition Desg & Planning

The renaissance of museums, product display, and exhibitions has made the making of exhibitions a significant, recognizable, and highly valued skill as well as profession. This course covers the fundamentals of exhibition design, as well as its history, theory and practice. Through the use of lecture based case studies, field trips to exhibitions, and studio work, students will not only learn to develop, design, build, and document exhibitions, but to prepare written design proposals, didactic exhibition material, and exhibition critiques. Emphasis will be on the narrative used to create exhibitions, employing scale, color, materials, lighting, sound, and graphics.

Credits: 3

College: Jefferson Coll of Architecture & Built Environment

Prerequisites: INTD 102 or LARC 102 or INDD 102 or DSGF 203 [Min Grade: D]

Schedule Type: Lecture, Studio

ARST 302: Unco the Past:Tools,Methods&St

Buildings are silent witnesses to the past. Rediscovering the "stories" of a building's many lives relies upon piecing together archival, physical, and ethnographic evidence. This course affords in-depth study of the techniques, strategies, and resources employed to track down data, using written, graphic, and oral sources. Field trips to key archival repositories provide students with first-hand experience in collecting and interpreting documentary evidence to develop historical narratives.

Credits: 3

College: Jefferson Coll of Architecture & Built Environment

Prerequisites: AHST 206 [Min Grade: D]

Schedule Type: Lecture

ARST 324: Arch Forensics and Documentati

In this course students decode a building's past by deciphering and recording the physical evidence of its evolution. Students learn the fundamentals of professional field techniques used to document and interpret historic structures and places, utilizing sketching and technical drawing via hand drafting and computer modeling. Through field work and labs, students survey, sketch, draft, and annotate comprehensive, technically proficient drawings that represent the salient aspects of historic structures and sites. Procedures and techniques for analyzing historic buildings to determine original appearance and the nature, extent, and chronology of physical change which has occurred over their history are introduced.

Credits: 3

College: Jefferson Coll of Architecture & Built Environment

Prerequisites: ARCH 102 or INTD 102 or LARC 102 [Min Grade: D]

Schedule Type: Lab, Lecture, Lecture/Lab

ARST 341: American Architecture

What makes the built environment in America unique? How has American design changed over the generations? What were architects, clients, and critics thinking? Where will American architecture go in the future? Using history, sociology, and the humanities, we will address these types of questions as we examine American architecture according to themes such as the iconic American home, public buildings, buildings for work and play, and American architectural practice.

Credits: 3

College: Jefferson Coll of Architecture & Built Environment

Prerequisites: AHST 206 or LARC 206 [Min Grade: D]

Schedule Type: Lecture

ARST 403: Rest & Rehab of Modernst Bldgs

Preservation of modern and mid-century modern buildings and sites is the next frontier within the profession as the significance of this architectural period is recognized and materials with which they were built reach the end of their serviceable lives. Working in track-based teams, students collaborate to determine historical significance and identify character-defining features of a building in the Philadelphia region, assess its condition, and prepare design solutions for adaptive reuse while preserving historic character.

Credits: 3

College: Jefferson Coll of Architecture & Built Environment

Prerequisites: AHST 305 [Min Grade: D]

Schedule Type: Lecture/Lab

ARST 404: Conserv Historic Build Interiors

Complementing the Building Conservation course this course provides a comprehensive overview of interior materials used in historic building interiors and the ongoing processes of their material deterioration, contemporary approaches to their treatment, and sustainability concepts of embodied energy and life cycle analysis as these pertain to building conservation. Through site visits, demonstrations, laboratory exercises, guided research, and discussions the course explores investigative techniques specific to historic interiors; diagnosis of existing conditions, including non-destructive and laboratory testing methods; and design of appropriate interventions to remedy observed problems. Students will collect, present, critically review findings and formulate recommendations for conservation and treatment of historic interior materials.

Credits: 3**College:** Jefferson Coll of Architecture & Built Environment**Schedule Type:** Lecture/Lab**ARST 409: The Great American City****Credits:** 3**College:** Jefferson Coll of Architecture & Built Environment**Prerequisites:** AHST 206 or LARC 411 [Min Grade: D]**Schedule Type:** Lecture**ARST 410: Vernacular Architecture**

This elective course provides the groundwork for the study of architecture built without architects or in some other way, unlike the buildings that comprise the standard architectural canon. Scholars estimate that 95 percent of buildings fall into this category. Depending on faculty expertise, focus will be on national and regional traditions, non-Western traditions or a combination of the two. Examples of vernacular architecture will be examined in the context of their materials, building technology, climate and culture.

Credits: 3**College:** Jefferson Coll of Architecture & Built Environment**Prerequisites:** AHST 206 or LARC 206 [Min Grade: D]**Schedule Type:** Lecture**ARST 412: Adaptive Reuse & Urban Regener**

The greenest building is the one already built. Working with a site and community-based client in the Philadelphia area, students engage in the process of adaptive reuse of historic buildings and the philosophical motives behind reuse, including the tenets of sustainable design and urban regeneration. Through the interplay of history, historical significance, and the constraints of a program for reuse, students develop solutions for buildings to serve a new purpose while still relaying their unique character. Students research a structure, provide a written statement of the philosophical approach to reuse, develop a concept for adaptive reuse and create a final spatial solution.

Credits: 3**College:** Jefferson Coll of Architecture & Built Environment**Prerequisites:** LARC 300 or ARCH 214 or INTD 202 [Min Grade: D]**Schedule Type:** On-Line, Studio**ARST 422: Issues in Contemporary Arch**

Through discussion and field trips, this seminar investigates selected topics that have dominated architectural thinking during the 20th and 21st centuries. The course focuses upon major issues that continue to influence both the meaning and practice of contemporary architecture, such as: the relationship of architecture to the region and culture-at-large; the impact of technology and the digital realms; patterns of settlement and the city; the spatial and sensory experience of a building; sustainable design; and the role of adaptive reuse and historic preservation, to name a few. Students will critique contemporary theory and practice to develop their own architecture and design theory.

Credits: 3**College:** Jefferson Coll of Architecture & Built Environment**Prerequisites:** AHST 305 [Min Grade: D]**Schedule Type:** Lecture**ARST 425: Meaning in Arch Ornamentation**

This elective course raises some theoretical questions that are relevant to contemporary practice. What is ornament? How and why have attitudes toward architectural ornamentation changed through history? Is ornament essential to architecture? Lectures will be presented following a reconstructed chronology of theoretical topics; from the things (res materialis) of which architecture consists; to the 'rules' and 'abuses' of classical ornament; to the role of imitation; to the effects of the Industrial and Post-industrial Revolutions on theories of ornament. The relationship between the forms and the materials of ornament will be examined in lecture and group discussions.

Credits: 3**College:** Jefferson Coll of Architecture & Built Environment**Prerequisites:** AHST 206 or LARC 411 [Min Grade: D]**Schedule Type:** Lecture**ARST 428: Restoration/Rehab Interiors**

This is an elective lecture/lab course in which students work with period and historic spaces. The course introduces students to theories and techniques of adaptation and preservation of period spaces, preserving their historical integrity. The course will deal with applicable building codes, National Park Service standards of rehabilitation, designing within ADA guidelines and use of appropriate materials and lighting.

Credits: 3**College:** Jefferson Coll of Architecture & Built Environment**Prerequisites:** AHST 305 or LARC 307 [Min Grade: D]**Schedule Type:** Lecture, Studio**ARST 434: Water and Architecture**

The rich architecture of public water in urban and rural contexts is a key to the cultural landscape. From the gravity systems of a Roman city, through the rich world of medieval water, and concluding with water powered by outside energy, we will study Western, Arab and Asian water systems. Through architecture, the course will link the technology of water cycles, purity, collection and storage with the aesthetics and rituals of culture.

Credits: 3**College:** Jefferson Coll of Architecture & Built Environment

Prerequisites: (GDIV 200 or GDIV 201 or GDIV 202 or GDIV 203 or GDIV 204 or GDIV 205 or GDIV 208 or GDIV 210 or GDIV 220 or GDIV 221 or GDIV 223 or GDIV 225 or GDIV 226 or GDIV 227 or GDIV 229 or GDIV 231 or GDIV 233 or GDIV 234 or GDIV 235 or GDIV 236 or GDIV 298) or (GCIT 200 or GCIT 208 or GCIT 210 or GCIT 211 or GCIT 212 or GCIT 214 or GCIT 215 or GCIT 216 or GCIT 217 or GCIT 225 or GCIT 298) [Min Grade: D]

Schedule Type: Lecture

ARST 471: Design Theory: Special Topics

This upper-level course is organized to take advantage of faculty members' expertise and the interests of the student body. All topics chosen require that students have completed basic courses in architectural history and theory, so that this course can focus on (1) an advanced analysis of theoretical texts in architecture, literary texts and buildings; and (2) an examination of architecture as a cultural discipline that seeks to accommodate contemporary human needs and natural situations.

Credits: 3

College: Jefferson Coll of Architecture & Built Environment

Prerequisites: AHST 306 or LARC 411 [Min Grade: D]

Schedule Type: Lecture

ARST 499: Arch Studies Capstone Project

The Architectural Studies Capstone Project provides an opportunity for students to engage in high-level inquiry, focusing upon an area of specialization within the student's track—Historic Preservation, Real Estate Development, UX Gaming Environment—or from a synthesis of the student's two declared minors. Capstone projects are research and practice-centered and draw upon areas of interest to the student. Prerequisite: Senior status and permission of program director

Credits: 4

College: Jefferson Coll of Architecture & Built Environment

Schedule Type: Lecture