

# Architecture and Design (ARDS)

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## Courses

### ARDS 60203. Design Seminar. 3 Hours.

Advanced seminars of special interest to students and faculty that are not covered in other courses. Prerequisite: Admission to the Master of Design Program (DSGNMDS). (Typically offered: Irregular) May be repeated for degree credit.

### ARDS 64903. Environmental Land Use Planning. 3 Hours.

Investigation of the relationship between development, stewardship and land use on the city and regional scales. Natural resource systems, public policies, regional economics, and social contexts are investigated as informers of environmental planning and design decisions. (Typically offered: Spring)

### ARDS 65003. History and Theory of Preservation Design I: Fundamentals in Preservation Practice. 3 Hours.

Foundational ideas of the historic preservation movement and the professional practices through which they are engaged, including their history and evolution over time. Central themes examine cultural heritage, strategies for identifying significant structures, and the impact of preservation laws and public policies in design and preservation practice. Prerequisite: Enrollment in the Master of Design Studies program. (Typically offered: Fall)

### ARDS 65203. History and Theory of Preservation Design II: Issues in Contemporary Practice Design. 3 Hours.

Contemporary issues in preservation design after modernism, addressing its new narratives and connections to global conflict, climate change and social equity. Students gain perspectives to shape the future of preservation design practice, engaging reuse of buildings and sites, planning and policy innovations, and social and historical research. Corequisite: Enrollment in Master of Design Studies program. (Typically offered: Spring)

### ARDS 67203. Methods of Design Inquiry. 3 Hours.

Investigation into the practical, theoretical, and methodological strategies necessary for embarking upon inquiry and discourse for design-related problems. Pre- or Corequisite: Admission into the Master of Design program. (Typically offered: Fall)

### ARDS 68003. Design Leadership. 3 Hours.

Explores leadership through conceptual and theoretical perspectives. Emphasis is on developing and managing effective design processes, methods, and organizations enabling innovative design practices. Students will explore contemporary issues and forces that affect the conditions of how design is embedded in thought leadership. Pre- or Corequisite: Admission into the Master of Design program. (Typically offered: Spring)

### ARDS 68103. Cities and Public Good. 3 Hours.

Studies infrastructure as socio-technical systems and potential transitions to lower-carbon futures. Concepts governing Large Technical Systems such as obduracy, path-dependency, energy transitions, value capture, and public good are explored through analytic frameworks like Multi-level Perspectives (MLP) and Socio-technical Systems Theory (STS) in the context of incumbent technologies. Pre- or Corequisite: Admission into the Master of Design program. (Typically offered: Fall and Spring)

### ARDS 68203. Vocabularies of Context Production. 3 Hours.

Explores connectivity through spatial and organizational formats from urbanism to supply chains, ecosystems, resource sheds, infrastructure, neighborhoods, eco-districts, and other public spaces. In addition to the traditional categories of geometry, proportion, and fit used to define place, vocabularies of flow, timing, interactivity, phasing, modulation, distribution, and emergence will be examined. Pre- or Corequisite: Admission into the Master of Design program. (Typically offered: Fall and Spring)

### ARDS 68303. Wood Theories, Tectonics and Environmental Response. 3 Hours.

Investigate wood design through theoretical, technical and practical inquiry emphasizing tectonics responding to a range of material and environmental aspects. Focused study of wood's physical properties, functions, and behavior in manufactured and constructed assemblies. Current and future global issues, industry, economy, and the design of the constructed environment are explored. Prerequisite: Admission to the Master of Design Studies Degree. (Typically offered: Fall)

### ARDS 68403. Advanced Wood Production Processes. 3 Hours.

Examine performative wood design at the intersection of cutting edge of fabrication-production technologies and the material assembly at multiple scales to expand the limits of current practice. Opportunities for wood design are re-examined in light of evolving digital technologies, practices and theories of making. Prerequisite: Admission to the Master of Design Studies Program. (Typically offered: Spring)

### ARDS 68503. Health and Wellness in the Built Environment. 3 Hours.

Advanced seminar examining the interactions of health and wellbeing in the built environment. Physiological and psychosocial wellness concepts are examined across multiple scales and settings. Prerequisite: Admission to the Master of Design Studies program or permission of instructor. (Typically offered: Fall)

### ARDS 69006. Advanced Design Studio. 6 Hours.

A topical design studio investigating project development dependent upon the synthesis of knowledge and application of critical thinking to complex environmental design problems. The intimate relationship between architecture, place and culture is used to create connection and relevance in the built environment. Pre- or Corequisite: Admission into the Master of Design program. (Typically offered: Fall)

### ARDS 69106. Advanced Design Studio II. 6 Hours.

An advanced topical design studio utilizing methods from domains external to design disciplines. Project resolution requiring skill in generating design ideas developed through strategic planning and responding to sociopolitical, economic, and environmental drivers. Pre- or Corequisite: Admission into the Master of Design program. Prerequisite: Completion of ARDS 69006. (Typically offered: Spring)

### ARDS 69206. Graduate Residency. 6 Hours.

Experiential learning integrating knowledge and theory in professional environment. This guided experience will facilitate career development, professional relationships, and provide a critical opportunity to apply new skills and knowledge to real problems. Pre- or Corequisite: Admission into the Master of Design program. Prerequisite: Completion of ARDS 69006 and ARDS 69106. (Typically offered: Summer)

### ARDS 6930V. Extended Graduate Residency. 1-6 Hour.

Experiential learning integrating knowledge and theory in professional environment. This guided experience will facilitate career development, professional relationships, and provide a critical opportunity to apply new skills and knowledge to real problems. Pre- or Corequisite: Admission into the Master of Design Studies program. Prerequisite: Completion of ARDS 69006 and ARDS 69106. (Typically offered: Fall and Spring) May be repeated for degree credit.