

# ARCHITECTURE, CERTIFICATE

The mission of the Certificate in Architecture is to provide UW–Madison students an opportunity to explore theories and practices of architecture, and the design and meaning of the built environment within socio-political, historical, cultural, and ecological contexts.

The population of the world now exceeds eight billion, half of which live in cities. These numbers will only increase as the century progresses, and the need to understand the issues and challenges in maintaining health, safety, and quality of life in the built environment has never been greater. A collaboration of architects, engineers, interior designers, landscape architects, and urban planners will be needed to apply art and science to address these challenges, using lessons from history to understand contemporary problems.

The certificate requirements create collaborative opportunities for students in engineering, architecture, art history, interior architecture, landscape architecture, and planning. For example, the certificate offers opportunities for engineering students to take courses in art history with students from art history and other majors. Similarly, art history students have opportunities to take courses in engineering, and so on. These cross-college educational opportunities are rare within established curriculum requirements and offer rich experiences for understanding the perspectives, theories, and practices of those in different professions.

At least three of the 15 credits will be taught online as a UW–Madison course number by architecture faculty at the University of Wisconsin–Milwaukee.

## HOW TO GET IN

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All undergraduate students in good academic standing are eligible to apply. We encourage students to declare as early as possible in order to plan their required coursework. Students should complete and submit the declaration form (<https://engineering.wisc.edu/programs/certificates/architecture/declaration/>) to declare the certificate. College of Engineering students must meet progression requirements in their selected major before the certificate can be added to their record.

## REQUIREMENTS

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- Students must successfully complete at least 15 credits, including 9 credits in courses numbered 300 or higher.
- Students must complete certificate courses with a GPA of 2.000 or higher.
- Courses completed on a pass/fail or credit/no credit basis will not count toward these requirements.

## REQUIRED COURSEWORK

Code	Title	Credits
<b>Studio Requirement</b>		
CIV ENGR 151	Architectural Making I	3

## Architectural History Course

Choose one from the following: 3–4

ART HIST 210	A History of the World in 20 Buildings
ART HIST/ ENVIR ST/ GEOG/HISTORY/ LAND ARC 239	Making the American Landscape
CIV ENGR 155	Architectural Thinking
DS 421	History of Architecture and Interiors I: Antiquity through 18th Century
DS 422	History of Architecture & Interiors II: 19th and 20th Centuries
LAND ARC 260	History of Landscape Architecture

## Electives

Must select courses from at least two different focus areas. 8–9

### Area 1: Studio

CIV ENGR 152	Architectural Making II
CIV ENGR 352	Frank Lloyd Wright - Design Seminar
CIV ENGR 451	Architectural Design
DS 120	Design: Fundamentals I
LAND ARC 210	Introduction to Landscape Architecture Design Studio
LAND ARC 261	Principles of Landscape Architecture Design and Graphics

### Area 2: History

ART HIST 210	A History of the World in 20 Buildings
ART HIST/ ENVIR ST/ GEOG/HISTORY/ LAND ARC 239	Making the American Landscape
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture
ART HIST 305	History of Islamic Art and Architecture
ART HIST 318	Romanesque and Gothic Art and Architecture
ART HIST 357	History of Wisconsin Architecture, 1800–present
ART HIST/ RELIG ST 373	Mecca, Cairo, Istanbul, Delhi: Great Cities of Islam
ART HIST/ ASIAN 379	Cities of Asia
ART HIST 405	Cities and Sanctuaries of Ancient Greece
ART HIST 413	Art and Architecture in the Age of the Caliphs
ART HIST 457	History of American Vernacular Architecture and Landscapes
ART HIST 468	Frank Lloyd Wright
CIV ENGR 150	Introduction to Architectural Theory
CIV ENGR 155	Architectural Thinking
DS 421	History of Architecture and Interiors I: Antiquity through 18th Century

DS 422	History of Architecture & Interiors II: 19th and 20th Centuries
LAND ARC 250	Survey of Landscape Architecture Design
LAND ARC 260	History of Landscape Architecture
URB R PL/ GEOG 305	Introduction to the City
<i>Area 3: Tools</i>	
CIV ENGR 159	Civil Engineering Graphics
CIV ENGR 250	Architectural Visualization
CIV ENGR 392	Building Information Modeling (BIM)
DS/ COMP SCI 579	Virtual Reality
LAND ARC 210	Introduction to Landscape Architecture Design Studio
LAND ARC 211	Shaping the Built Environment
<i>Area 4: Construction</i>	
CIV ENGR 496	Electrical Systems for Construction
CIV ENGR 497	Mechanical Systems for Construction
DS 223	Interior Architectural Design
M E 461	Thermal Systems Modeling

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

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1. Demonstrate knowledge of basic concepts in architecture and related disciplines
2. Employ skills in scale and proportion, composition and form in both 2D and 3D
3. Distinguish and develop a working knowledge of significant developments in architectural thinking across time and in a cross-cultural context
4. Apply critical thinking to ideas and theories in the history of architecture