ARCHITECTURAL ENGINEERING AND DESIGN MINOR

The Minor in Architectural Engineering and Design trains students in the fundamental principles and practice of architectural and engineering design. Students completing this program will learn architectural conceptualization, programming, and design implementation in conjunction with analysis of the engineering materials and systems used in the construction of buildings and other structures. A key element of the program is aesthetic skills, which will be honed through the creative iterations of design. Students completing this program will be uniquely prepared for advanced study in either architecture or engineering, and regardless of their ultimate career track, will be prepared as leaders of the building design profession.

Course			Title		
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Minor Requirements (8 units)				
Architectural Seminar - 0 unit ¹					
CIV_ENV 280-1	Architectural Engineering & Design Seminar I				
CIV_ENV 280-2	Architectural Engineering & Design Seminar II				
CIV_ENV 280-3	Architectural Engineering & Design Seminar III				
Core courses - 3 required units ²					
CIV_ENV 385-1	Architectural Engineering and Design 1: Fundamentals				
CIV_ENV 385-2	Architectural Engineering & Design 2: Intermediate				
CIV_ENV 385-3	Architectural Engineering & Design 3: Advanced Studio				
Architecture History - 2 units ³					
CIV_ENV 220-0	Structural Art (required)				
Choose 1 unit from the list of courses below					
ART_HIST 232-0	Introduction to the History of Architecture: 1400 to Present				
ART_HIST 370-1	Modern Architecture and Design				
ART_HIST 370-2	Contemporary Architecture and Design				
ART_HIST 378-0	The Global City				
Design and Analysis Techniques - choose 3 units					
CIV_ENV 323-0	Structural Steel Design				
CIV_ENV 325-0	Reinforced Concrete				
CIV_ENV 352-0	Foundation Engineering				
CIV_ENV 353-0	Energy Geostructures & Geosystems				
CIV_ENV 368-0	Sustainability: The City				
CIV_ENV 386-0	High Performance Architectural Design				
CIV_ENV 387-0	Design of Sustainable Urban Developments				
CIV_ENV 388-1	Building Science I: Fundamentals for Sustainable Buildings				
CIV_ENV 388-2	Building Science II: Application for Sustainable Buildings				
CIV_ENV 395-0	Special Topics in Civil and Environmental Engrg				

Additional Conditions for Awarding Minor in AED

 Course with grades lower than a "C" or taken P/N will not be acceptable for this minor.

(Indoor Air Quality or Building Enclosure Design)

- For McCormick BS degrees, at least 4 courses used to meet the AED Minor requirements must not be counted towards the 16 units of major program requirements.
- To declare the AED minor, students should submit the minor declaration form in MAS (McCormick Advising System) no later than the end of their junior year.
- The AED seminar sequence spans the Fall, Winter, and Spring Quarters. It includes lectures from architects, engineers, and construction managers from renowned firms in the Chicago area and beyond, focusing on the large topic of sustainability in the built environment. The AED seminar is intended to be taken sequentially. It is strongly suggested to take the sequence in the senior year.
- ² The Design Studio courses are intended as a sequence and must be taken as such. It is strongly suggested to attend the sequence in the junior year.
- The Architecture History courses can be attended starting from the Sophomore year.