

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
Minor Requirements (8 units)	
Core courses - 3 required units	
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
History of Design - choose 1 unit	
ART_HIST 232-0	Introduction to the History of Architecture and Design
CIV_ENV 220-0	Structural Art
Architectural Seminar - 1 unit	
CIV_ENV 395-0	Special Topics in Civil and Environmental Engrg
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 368-0	Sustainability: The City
CIV_ENV 386-0	High Performance Architectural Design
CIV_ENV 387-0	Design of Sustainable Urban Developments

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.
- For McCormick BS degrees, at least 5 courses used to meet the AED Minor requirements must not be counted towards the 16 units of major program requirements.
- Submit a completed ***Declaration of Petition*** to Receive the Minor in AED to McCormick Office of Undergraduate Engineering **at least 3 quarters before** the beginning of the final undergraduate quarter.