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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Architectural Seminar - 0 unit 1 | Architectural Engineering & Design Seminar I
Architectural Engineering & Design Seminar II
Architectural Engineering & Design Seminar III
Core courses - 3 required units 2 | Architectural Engineering and Design 1: Fundamentals
Architectural Engineering & Design 2: Intermediate
Architectural Engineering & Design 3: Advanced Studio
Architecture History - 2 units 3 | Structural Art (required)
Choose 1 unit from the list of courses below
Introduction to the History of Architecture: 1400 to Present
Modern Architecture and Design
Contemporary Architecture and Design
The Global City
Design and Analysis Techniques - choose 3 units
Structural Steel Design
Reinforced Concrete
Foundation Engineering
Energy Geosystems & Geosystems
Sustainability: The City
High Performance Architectural Design
Design of Sustainable Urban Developments
Building Science I: Fundamentals for Sustainable Buildings
Building Science II: Application for Sustainable Buildings
Special Topics in Civil and Environmental Engng (Indoor Air Quality or Building Enclosure Design)

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 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.

1 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.

3 The Architecture History courses can be attended starting from the Sophomore year.