

ARC Architectural Studies

ARC 105 Presentation and Communication Tools (2-2) 3 crs.

Introduces various communication and presentation tools commonly used throughout the field of architecture. Covers the fundamentals of industry-wide CAD software; computer presentation techniques using various software titles; and three-dimensional building models, materials and techniques.

ARC 106 Introduction to Architecture (1-5) 3 crs.

Introduces the profession of architecture as well as the technical procedures for creating typical drawing types. Covers the role of the architect and other professionals within the AEC industry as well as architectural education and basic architectural design thought and theories. Manual drafting techniques are used to create standard drawings including plans, sections, elevations and perspectives.

ARC 110 Architectural Design Principles (2-6) 4 crs.

Develops methods and strategies to apply design principles to fundamental architectural problems. Employment of 2- and 3-dimensional exercises to explore concepts of mass, space, and structure, as well as principles such as proportion, rhythm, scale, symmetry and procession. Exercises will be designed to promote an understanding of the process of concept formation and application.

Prerequisite: ARC 106 with a grade of C or better, or consent of instructor.

ARC 113 Building Materials I (3-3) 4 crs.

Introduces masonry, wood and non-fireproofed steel construction for one- and two-story buildings. Manual drafting techniques are used to create concrete foundation and footing details, wall and building sections, as well as construction details.

ARC 116 Architectural CAD I (2-2) 3 crs.

Introduces computer hardware and state-of-the-art software as applied to applications in architecture, interior design and other related fields. Develops understanding of basic parameters for design and drafting technologies: entity creating and editing, printing and plotting, and file/data management. Projects are correlated primarily to architectural design issues.

ARC 117 Architectural CAD II (2-2) 3 crs.

Covers advanced CAD techniques and procedures developed in two-dimensional architectural drafting and detailing. Develops a working knowledge and understanding of command structures, detailed data management and manipulation techniques, and software customization procedures. Projects are correlated primarily to architectural construction, drafting and detailing issues.

Prerequisite: ARC 116 with a grade of C or better, or consent of instructor.

ARC 125 Chicago's Architectural History (3-0) 3 crs.

Introduces an historical survey of culture and technology impact on Chicago's architecture. Emphasizes ideas and trends in modern building originating with the balloon frame and continuing through to the skyscraper.

ARC 201 Architectural Design Studio I (2-6) 4 crs.

Applies and advances design principles and processes gained in ARC 110. Studio projects representing practical architectural problems are assigned. These incorporate multiple issues and principles as well as site, user and context parameters. Project solutions will be documented with accurate drawings and possibly models.

Prerequisite: ARC 110 with a grade of C or better, or consent of instructor.

ARC 202 Architectural Design Studio II (2-6) 4 crs.

Applies and advances architectural design principles and processes gained in ARC 201 on larger, more complex project types. Studio projects representing advanced architectural problems are assigned. These incorporate multiple issues and principles as well as site, user and context parameters. Project solutions will be documented with accurate drawings and models.

Prerequisite: ARC 201 with a grade of C or better, or consent of instructor.

ARC 213 Building Materials II (2-4) 4 crs.

Develops construction strategies of multi-storied steel and concrete commercial and residential buildings. Covers stairs, elevators, and toilet room layouts. Reviews fire-resistive construction technologies, window walls, ceiling grids, lighting, partition details, mechanical and electrical requirements.

Prerequisite: ARC 113 with a grade of C or better, or consent of instructor.

ARC 223 History of Architecture (3-0) 3 crs.

Surveys architecture from prehistorical times through the Renaissance, including Western and non-Western cultures. Stylistic and technological developments of architecture are studied in relationship to the cultural diversity of social, political, and religious contexts and historical periods.