

## ARCHITECTURE • ARCH

General education courses are marked with stars (★).

- 1001 Architectural Design I (6)** Prereq.: permission of department. 12 hrs. studio. Emphasis on two-dimensional representation of three-dimensional forms; development of basic skills in architectural design drawing and modeling.
- 1002 Architectural Design II (6)** Prereq.: ARCH 1001. 12 hrs. studio. An Honors course, ARCH 1102 is also available. Emphasis on the organization of spaces, form and process, and development of skills in architectural design drawing and modeling.
- 1102 HONORS: Architectural Design II (6)** Prereq.: ARCH 1001. 12 hrs. studio. Same as ARCH 1002, with special emphasis for qualified Honor students.
- 2001 Architectural Design III (6)** Prereq.: ARCH 1002 or ARCH 1102; coreq.: ARCH 2003. 12 hrs. studio. An Honors course, ARCH 2101 is also available. Emphasis on abstract and theoretical organizational concepts; space, form, function, and resolution of materials and structural systems.
- 2002 Architectural Design IV (6)** Prereq.: ARCH 2001 or ARCH 2101; coreq.: ARCH 2006. 12 hrs. studio. An Honors course, ARCH 2102 is also available. Required field trip. Students are responsible for paying travel expenses associated with the course. Emphasis on process, materials theory, site inventory, and analysis and impact of regionalism.
- 2003 Architectural Techniques (3)** Prereq.: ARCH 1002; coreq.: ARCH 2001. Exploration of drawing, modeling, and digital applications to the design process; specific techniques will vary based on projects assigned in ARCH 2001.
- 2006 Architectural Topics (3)** Prereq.: ARCH 2003; coreq.: ARCH 2002. Use of case studies to contrast the meanings of buildings designed in urban or rural environments.
- 2101 HONORS: Architectural Design III (6)** Prereq.: ARCH 1002 or 1102; coreq.: ARCH 2003; 12 hrs. studio. Same as ARCH 2001, with special emphasis for qualified Honor students.
- 2102 HONORS: Architectural Design IV (6)** Prereq.: ARCH 2001 or 2101; coreq.: ARCH 2006. 12 hrs. studio. Same as ARCH 2002, with special emphasis for qualified Honors students.
- 2145 Louisiana and Gulf Coast Building Culture (3)** History and development of Louisiana and gulf coastal architecture from the 17<sup>th</sup> century to the present.
- ★ 2401 Appreciation of Architecture (3) S** Not open to architecture majors. Architectural concepts and principles; architectural vocabulary, style, symbolic form characteristics, spatial character, and refinements.
- 2402 Introduction to Structural Forms (3) S** Prereq.: enrollment in professional program in architecture or interior design. Nonmathematical survey of structural elements and systems; their integration in the environmental design study of forces and force systems; state of stress; deformation; properties of shapes.
- 3000 Supervised Independent Study and Research (1-3)** Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit with consent of school director. Investigation of areas of interest not covered in other departmental courses.
- 3001 Architectural Design V (6)** Prereq.: approval for advancement to upper division in architecture. 12 hrs. studio. An Honors course, ARCH 3101 is also available. Required field trip. Students are responsible for paying travel expenses associated with the course. Emphasis on programming, site analysis and planning, functional planning, and resolution of structural and architectural systems.
- 3002 Architectural Design VI (6)** Prereq.: ARCH 3001 or ARCH 3101, 3007. 12 hrs. studio. An Honors course, ARCH 3102 is also available. Emphasis on planning buildings while incorporating studies in the technologies of materials, structure, environmental controls, lighting, and acoustics.
- 3003 Architectural Structures I (3)** Prereq.: approval for advancement to upper division in architecture. Building structural mechanics, statics, strength of materials, and theories of structures.
- 3004 Architectural Structures II (3)** Prereq.: ARCH 3003. Design and application of timber and steel structures in architecture.
- ★ 3005 History of Architecture I (3)** The development of architectural and spatial forms as they relate to changing perceptions of self, society, and the natural world. From prehistory to the 13<sup>th</sup> century.
- ★ 3006 History of Architecture II (3)** Prereq.: ARCH 3005. The development of architectural and spatial forms as they relate to changing perceptions of self, society, and the natural world from the Italian Renaissance through modern times.
- 3007 Architectural Systems (3)** Prereq.: approval for advancement to upper division in architecture. Detailed treatment of construction materials and systems, with emphasis on large scale application of enclosure systems and steel and concrete structures.
- 3008 Environmental Control Systems (3)** Prereq.: approval for advancement to upper division in architecture. Principles and practices of selection and design of mechanical systems, including lighting, electrical distributions, acoustics, plumbing, vertical transportation, and fire suppression.
- 3101 HONORS: Architectural Design V (6)** Prereq.: approval for advancement to upper division in architecture. 12 hrs. studio. Required field trip. Students are responsible for paying travel expenses associated with the course. Same as ARCH 3001, with special emphasis for qualified Honors students.
- 3102 HONORS: Architectural Design VI (6)** Prereq.: ARCH 3001 or 3101, 3007. 12 hrs. studio. Same as ARCH 3002, with special emphasis for qualified Honors students.
- 3457 Hands on Materials (3) V** Prereq.: ARCH 2154. 6 hrs. studio. Design and physical manipulation, construction, and/or fabrication of devices or components made primarily (but not necessarily exclusively) of steel.
- 4001 Architectural Design VII (6)** Prereq.: ARCH 3002 or ARCH 3102. 12 hrs. studio. Service-learning course. An Honors course, ARCH 4101 is also available. Emphasis on the advancement of sustainable communities through analysis, building design, and the study of socially responsible approaches to development and building practice.
- 4002 Architectural Design VIII (6)** Prereq.: ARCH 4001 or ARCH 4101. 12 hrs. studio. An Honors course, ARCH 4102 is also available. Required field trip. Students are responsible for paying travel expenses associated with the course. Emphasis on the design of single or multiple buildings in urban environments.
- 4003 Intensive Design Studio (6) Su** Prereq.: admission to the MArch program. 12 hrs. studio. Introduction to design, analysis, and the development of basic architectural skills.
- 4007 History of Architecture III (3)** Prereq.: ARCH 3006. Development of architectural and spatial forms as they relate to changing perceptions of self, society, and the natural world in the 20<sup>th</sup> century.
- 4031 Architectural Structures III (3)** Prereq.: ARCH 3003. Design and application of concrete structures in architecture.
- 4032 Advanced Architectural Technology (3)** Prereq.: ARCH 3008. Seminar relating to topics of architectural technologies including, but not limited to building structures, environmental concerns, electronic transfer of information.
- 4033 Fundamentals of Architectural Technology (2) Su** Prereq.: admission to the MArch program or consent of instructor. A survey of the fundamental theories and techniques of mathematical and physical science related to the application of architectural technology.
- 4041 Issues in Sustainability (3)** Examination of issues in sustainability as they relate to the practice of architecture.
- 4051 Advanced 20<sup>th</sup> Century Architectural History (3)** Prereq.: ARCH 3005, 3006. Topics in 20<sup>th</sup> century architectural history and theory; writing component.
- 4052 Advanced Architectural History (3)** Prereq.: ARCH 3005, 3006. Topics on architectural history and theory.
- 4062 Urban Design and Planning (3)** Fundamentals of urban morphology in relation to historical, social, political, and economic systems.
- 4072 Community Design Studies (3)** Study of community design and community-based practice with emphasis on contemporary participatory action research and techniques.
- 4090 Restoration Studies (3)** Theory and methodology of architectural restoration; tools and techniques of restoration.
- 4101 HONORS: Architectural Design VII (6)** Prereq.: ARCH 3002 or 3102. 12 hrs. studio. Same as ARCH 4001, with special emphasis for qualified Honor students.
- 4102 HONORS: Architectural Design VIII (6)** Prereq.: ARCH 4001 or 4101. 12 hrs. studio. Required field trip. Students are responsible for paying travel expenses associated with the course. Same as ARCH 4002, with special emphasis for qualified Honors students.
- 4155 Recording Historic Structures (3)** Prereq.: permission of department. 1 hr. lecture; 2 hrs. lab. Hands-on field and laboratory experience in current methods of documenting historic buildings, including hand methods, photography, and photogrammetry.
- 4165 Applied Principles of Conservation (3)** Prereq.: permission of department. 1 hr. lecture; 4 hrs. lab. Laboratory work will be at the LSU Rural Life Museum. Hands on work with traditional construction materials, tools, and methods: masonry, timber, bousillage, and others.
- 4221 Selected Topics in Architecture (3) V** May be taken for a max. of 12 hrs. of credit with school approval. Studies in various subjects related to architecture.
- 4353 Principles and Practices of Land Development (3)** Environmental, physical, and financial aspects of land development.
- 4440 Vernacular Architecture and Material Culture (3)** See ANTH 4440.
- 4441 Aesthetics of Architecture (3)** Prereq.: consent of instructor. Development of aesthetic theory through architectural literature.
- 4474 Passive Solar Energy Applications for Buildings (3)** Design and application of passive solar systems for space heating and cooling of buildings.
- 4700 Research Methods (3)** Major research methods in architecture; hypothesis formulation and testing, data gathering and analysis.
- 4991 Advanced Computer Applications in Design (3) F,S** Prereq.: permission of department. 1 hr. lecture; 2 hrs. lab. Development and application of computer-based image processing and information management skills.
- 4993 Advanced Computer Aided Architectural Graphics (3) F,S** Prereq.: consent of instructor. The development and application of advanced computer-based architectural design and communication skills.
- 5001 Comprehensive Architectural Design (6)** Prereq.: ARCH 4002 or ARCH 4102. 12 hrs. studio. An Honors course, ARCH 5101 is also available. Emphasis on the comprehensive design of a single building integrating material selection, mechanical, acoustical, structural, lighting, and two- and three-dimensional studies.

**5002 Architectural Design Concentration (6)** Prereq.: ARCH 5001 or ARCH 5101. 12 hrs. studio. Emphasis on architectural problems developed around faculty expertise and emerging opportunities in the profession.

**5003 Advanced Architectural Topics (3)** Seminar relating to various topics in architecture; writing component.

**5004 Concentration Seminar (3)** Various topics relating to architectural problems encountered in ARCH 5002.

**5005 Advanced Architectural Techniques (3)** 1 hr. lecture; 4 hrs. studio. Preparation and correlation of working drawings, specifications, and project manuals, from design development drawing.

**5006 Professional Practice (3)** Exploration and analysis of project acquisition, contract negotiations, governmental regulations, personnel, office management, and the architect's societal role.

**5008 Community Design Practicum (6)** Prereq.: ARCH 3002, LA 3002, or permission of department. Minimum 280 hours of supervised experience. Supervised learning experience in the Office of Community Design and Development or approved off-campus site with emphasis on pre-professional services for community-based projects

**5101 HONORS: Comprehensive Architectural Design (6)** Prereq.: ARCH 4002 or 4102. 12 hrs. studio. Same as ARCH 5001, with special emphasis for qualified Honors students.

**7001 Graduate Design Studio I (6) F** Prereq.: ARCH 4003 or equivalent. 12 hrs. studio. The use of space and form in relation to concept in the exploration of basic architectural elements.

**7002 Graduate Design Studio II (6) S** Prereq.: ARCH 7001. 12 hrs. studio. Emphasis on the design of buildings in a variety of physical settings.

**7003 Graduate Design Studio III (6) F** Prereq.: ARCH 7002. 12 hrs. studio. Emphasis on architectural programming and the design of buildings incorporating technologies of materials and various architectural systems.

**7004 Graduate Design Studio IV (6) F** Prereq.: ARCH 7003. 12 hrs. studio. Emphasis on the design of buildings incorporating technologies of environmental systems.

**7005 Graduate Design Studio V (6) F** Prereq.: ARCH 7004. 12 hrs. studio. Introduction to contextual building design in an urban setting with emphasis on site and context analysis and community planning in a collaborative working environment.

**7006 Graduate Design Studio VI (6)** Prereq.: ARCH 7005. 12 hrs. studio. Credit will not be given for both this course and ARCH 8000. Emphasis on the synthesis of all issues addressed in previous studios in the comprehensive design of buildings.

**7040 Structural Concepts and Forms (3)** Relationship between the schematic properties of prototypical building forms and basic types of total system behavior.

**7050 Project Planning/Management (3)** Relationship of the construction process and project planning to building projects of various scales and complexities.

**7080 Building Energy Systems (3)** Prereq.: ARCH 3171 and 3173 or equivalent. Building energy performance and human interaction.

**7600 Seminar in Architecture (3)** May be taken for a max. of 9 hrs. of credit when topics vary. Selected topics in architecture.

**7900 Architectural Studies/Research (3)** Prereq.: written consent of School of Architecture Graduate Committee. May be taken for a max. of 6 sem. hrs. of credit. Selected readings and/or research under the supervision of graduate faculty.

**8000 Thesis Research (1-12 per sem.)** "S""U" grading.

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