

REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN ARCHITECTURAL STUDIES

COLLEGE OF ARCHITECTURE

THE UNIVERSITY OF OKLAHOMA

For Students Entering the Oklahoma State System for Higher Education
Summer 2016 through Spring 2017

Credit Hours and Grade Average Requirements	
Total Credit Hours	120
Minimum Upper-Division Hours Required	48
Minimum Retention/Graduation Grade Point Averages:	
Minimum OU Retention GPA	2.50
Minimum Combined Retention GPA	2.50
Minimum GPA on all Required Professional Courses	2.50

Architecture – Three+
Year Program
B043
Bachelor of Science in
Architectural Studies

OU encourages students to complete at least 35 hours of applicable coursework each year to have the opportunity to graduate in three and a half years.

A minimum grade of C is required in all major coursework. Completion of a university-approved minor or Division approved concentration is also required. All first year courses are to be completed before advancing to the second year unless otherwise approved by the Architecture Division Director.

Year	FIRST SEMESTER	Hours	SECOND SEMESTER	Hours
FRESHMAN	ARCH 1112, Cultures of Collaborating, Creating, & Constructing	2	ARCH 1263, Methods II - Patterns of Architecture	3
	ARCH 1163, Methods I - Materiality of Place	3	ARCH 1255, Design II - Craft & Making	5
	ARCH 1153, Design I - Design Fundamentals	3	ENGL 1213, Principles of English Composition (Core I), or	3
	ENGL 1113, Principles of English Composition (Core I)	3	EXPO 1213, Expository Writing (Core I)	4
	Natural Science, with lab-(Core II) from approved Gen. Ed. list	4	PHYS 1114, Physics for Non-Science Majors (Core II)	4
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15
SUMMER	P SC 1113, American Federal Government (Core III)	3		
	HIST 1483 or 1493, U.S. History (Core IV)	3		
	TOTAL CREDIT HOURS	6		
SOPHOMORE	ARCH 2243, History of the Built Environment I (Core IV)	3	ARCH 2343, History of the Built Environment II (Core IV)	3
	ARCH 2363, Methods III - Materials and Form	3	ARCH 2463, Methods IV - Sustainable and Resilient Systems I	3
	ARCH 2356, Design III - Crafting Place	6	ARCH 2456, Design IV - Materials & Making	6
	MATH 1523, Pre-calculus and Trigonometry (Core I)	3	ARCH 4133, Architectural Structures I	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15
SUMMER	§Open Elective (upper division)	3		
	Social Science - Advised Elective (Core III)	3		
	TOTAL CREDIT HOURS	6		
JUNIOR	ARCH 4233, Architectural Structures II	3	ARCH 4000, Foreign Study (may be taken any semester)	0
	ARCH 4453, Modern & Contemporary Architecture	3	ARCH 4543, Architectural Theory and Criticism	3
	ARCH 4563, Methods V - Sustainable and Resilient Systems II	3	ARCH 4663, Methods VI - Urban Design Methodologies	3
	ARCH 3556, Design V - Architectural Making I	6	ARCH 3656, Design VI - Architectural Making II	6
			§Open Elective (upper division)	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15
Admission to the BARCH or the accelerated MARCH degree program requires an application and portfolio review during the spring semester of the third year.				
SENIOR	ARCH 4723, Methods VII-Advanced Systems	3		
	ARCH 4756, Design VII-Systems & Context (Capstone)	6		
	§Open Elective (upper division)	3		
	Non-Western Culture - (Core IV), upper-division	3		
	Understanding Artistic Forms — (Core IV) [†]	3		
	TOTAL CREDIT HOURS	18	TOTAL CREDIT HOURS	

§Open Elective (6 hours)—Any open elective hours are the student's choice but may not include architecture courses.

University-Wide General Education Requirements (minimum 40 hours)

Courses designated as Core I, II, III, IV, or Capstone are part of the General Education curriculum. Students must complete a minimum of 40 hours of General Education courses, chosen from the approved list, including at least **one upper-division Gen. Ed. course outside of the student's major**. Courses graded S/U or P/NP will not apply.

Core I	Symbolic and Oral Communication (9–19 hours, 3–5 courses) <ul style="list-style-type: none"> •English Composition—6 hours, 2 courses •Mathematics—3 hours, 1 course •Foreign Language—0–10 hours, 2 courses in the same language, (which can be met by successfully completing two years of the same foreign language in high school) •Other (courses such as communication, logic or public speaking)
Core II	Natural Science (7 hours, 2 courses) <ul style="list-style-type: none"> •Courses must be taken from different disciplines in the biological and/or physical sciences; one of which must include a laboratory.
Core III	Social Science (6 hours, 2 courses) <ul style="list-style-type: none"> •One course must be P SC 1113, “American Federal Government”
Core IV	Humanities (12 hours, 4 courses) <ul style="list-style-type: none"> •Understanding Artistic Forms—3 hours, 1 course •Western Civilization and Culture—6 hours, 2 courses, including HIST 1483 or HIST 1493 •Non-Western Cultures—3 hours, 1 course
Senior Capstone Experience (6 hours, 1 course - as required by the College of Architecture)	

COURSES IN ARCHITECTURE (ARCH)

- 1112 Cultures of Collaborating, Creating, and Constructing.** Prerequisite: Architecture or Environmental Design major. Introduction to the foundations of the various planning, design, and construction disciplines. Focus on the collaborative process for creating and constructing the built environment. Histories of expertise areas such as planning, architecture, landscape architecture, interior design, construction science, engineering, and graphic environmental design will be explored and related to how these have evolved to their contemporary conditions. (F)
- 1153 Design I – Design Fundamentals.** Co-requisites: ARCH 1122, ARCH 1163 or permission of director. Development of foundational design and representational skills, and graphic conventions including sketching and digital methods. The course introduces processes of Creating-Making through methods engaged in critical thinking and experiential knowing. Methods of composition are introduced and explored: design elements and principles, proportion and scale, ordering systems, and organizational strategies. Introduction to issues of craft and material engagement. (F)
- 1163 Methods I - Materiality of Place.** Co-requisites: ARCH 1112, ARCH 1153 or permission of director. This course provides an introduction to the historical and theoretical issues forming and informing the development of the built environment. The relationships of conceptual, methodological, and representational skills related to designed environments will be introduced and developed. Design vocabulary, studio culture, and architectural discourse will be explored and related within the framework of Creating-Making. (F)
- 1255 Design II – Craft and Making.** Prerequisites: ARCH 1112, ARCH 1163, ARCH 1153 with a grade of C or better. Co-requisite: ARCH 1263; or permission of director. The class is a continuation in the development of fundamental design skills through introductions to the material, formal, and spatial properties of architecture. Fabrication safety, craft, and techniques will be introduced and developed through the making of full-scale constructions. Continued ideas involving Creating-Making are explored through exercises in the formal, spatial, and material qualities of human environments. This course further develops techniques of representation and communication with an emphasis on hybrid visualization techniques. (Sp)
- 1263 Methods II – Pattern of Architecture.** Prerequisites: ARCH 1121, ARCH 1163, ARCH 1153 with a grade of C or better. Co-requisite: ARCH 1255; or permission of director. This course provides an introduction to organizational strategies across a range of architectural scales. Ordering principles are investigated from micro through macro, from the materiality and tectonics of details, to urban patterns. Architectural assemblies and building technology will introduce structural systems and material characteristics. Massing and typology studies will introduce relationships of building to site and environment. Concepts of sustainability will be further investigated through master planning and urban theories. (Sp)
- 2243 History of the Built Environment.** Prerequisite: majors only or permission of director. Co-requisite: ARCH 2363, ARCH 2356; for Interior Design majors: completion of A HI 2213 and A HI 2223. A theoretical investigation of the cultural, political, and aesthetic values of diverse Western and non-Western cultures and how these affect the built environment from pre-history through the Renaissance. This course continues the development of critical writing skills and further develops analytic skills that act to inform design decisions related to studio projects. (F)
- [IV-WC]
- 2343 History of the Built Environment II.** Prerequisites: ARCH 2363, ARCH 2356, ARCH 2243. Co-requisites: ARCH 2463, ARCH 2456, ARCH 4133; or permission of director. An investigation of the cultural, political, and aesthetic values of diverse Western and non-Western cultures and how these have affected the built environment from the Renaissance through the 19th century. This course continues the development of critical writing skills and further develops analytic skills that act to inform design decisions related to studio projects. (Sp)
- 2356 Design III – Crafting Place.** Prerequisites: ARCH 1263, ARCH 1255 with a grade of C or better. Co-requisites: ARCH 2363, ARCH 2243; or permission of director. Development of formal and spatial architectural components that demonstrate engagement with design principles, precedent analysis, human factors, and environmental and cultural influences on design. Expression of ideas through the application of virtual techniques of representation and visual communication are required. (F)
- 2363 Methods III – Materials and Form.** Prerequisites: ARCH 1263, ARCH 1255 with a grade of C or better. Co-requisite: ARCH 2356, ARCH 2243; or permission of director. This course offers an introduction to the nature of building materials with regard to form, strength, durability, workability, structure, connections, surfaces, and edges. Analysis of architectural expression through the use of building materials including the effects of: light, air movement, humidity, and their relationships to both one another and formal and spatial expressions. (F)
- 2456 Design IV – Materials and Making.** Prerequisites: ARCH 2363, ARCH 2356, ARCH 2243 with a grade of C or better. Co-requisites: ARCH 2463, ARCH 2343, and ARCH 4133; or permission of director. This course introduces projects of moderate complexities demonstrating intermediate design principles within the context of the urban environment demonstrating an understanding of material. Students begin to engage the effects of site and environmental conditions upon material, formal, and spatial design decisions. (Sp)
- 2463 Methods IV – Sustainable and Resilient Systems I.** Prerequisites: ARCH 2363, ARCH 2356, and ARCH 2243 with a grade of C or better. Co-requisites: ARCH 2456, ARCH 2343, ARCH 4133; or permission of director. Introduction to psychometrics, heat transmission in buildings, heating, air conditioning and ventilation, solar heat gain, passive solar conditioning, plumbing, and fire protection. (Sp)
- 3556 Design V – Architectural Making I.** Prerequisites: ARCH 2463, ARCH 2456, ARCH 2343, and ARCH 4133 with a grade of C or better. Co-requisites: ARCH 4563, ARCH 4233, ARCH 4453; or permission of director. This course introduces students to building program development and site design in the context of a building design project that ranges from 5,000 to 15,000 square feet. Weekly assignments, guest lectures and in-class exercises are tailored to introduce principles and techniques of site design and programming. Research assignments challenge students to analyze conceptual, site, and programmatic precedents. Ultimately, students will be challenged to create a comprehensive building design that integrates basic structural systems, passive design strategies, and materials. This course will introduce climatic data analysis software as a means for teaching evidence based design and sustainable design principles. (F)
- 3656 Design VI – Architectural Making II.** Prerequisites: ARCH 4563, ARCH 3556, ARCH 4233, ARCH 4453 with a grade of C or better. Co-requisites: ARCH 4663, ARCH 4543; or permission of director. In this course students develop the ability to design in the context of existing urban environments. Students are challenged to take into account the layered histories of cities as well as the complexities of dealing with site and street design for urban contexts. Guest lectures and in-class workshops from experts on urban design and planning provide new perspectives and skills training. Special topics pertaining to individual studio programs will be explored. (Sp)
- 4000 Foreign Study.** Prerequisite: permission of instructor. The student will experience an alternative culture or setting that enhances awareness and sensitivity. While this course normally involves foreign studies, it may include design/build, community service, volunteer activities, or other experiences relevant to Creating-Making. The duration of this experience shall be no less than eight weeks, and must be approved by a faculty coordinator. (F, Sp, Su)
- 4053 Methods X – Tools of Practice.** (Slashlisted with ARCH 5053) Prerequisites: ARCH 4923, ARCH 4956 with a grade of C or better Co-requisites: ARCH 4056; or permission of director. This course explores issues in contemporary architectural practice including the role of the client, contracts, practice and project management, leadership skills, legal responsibilities, ethics and professional judgment, and community and social responsibilities. Emphasis is placed upon issues of cultural and environmental sustainability, political activism, and the changing role of the architecture profession. Knowledge of techniques is developed for project justification from establishing the scope of projects to cultural, sustainable, and financial feasibility. The course contains program specific research and support related to studio projects. No student can earn credit for both ARCH 4053 and ARCH 5053. (Sp)
- 4056 Design X – Options Studio II.** Prerequisites: ARCH 4723, ARCH 4756, and ARCH 4333 with a grade of C or better. Co-requisites: ARCH 4053; or permission of director. Emphasizes the development of a complete project from schematic design through design development and construction detailing. Students will develop a building of limited programmatic complexity through more complete technical development. This course addresses and builds upon the collaborative and analytic knowledge developed in ARCH 4756. (Sp)
- 4133 Architectural Structures I.** (Slashlisted with 5133) Prerequisite: ARCH 2363, ARCH 2356, ARCH 2243, MATH 1523, and PHYS 1114; Corequisite: ARCH 2343, ARCH 2463, ARCH 2456; or Construction Science major and completion of PHYS 2414 and MATH 1523; or permission of director. An introduction to basic physics, forces within structural systems, material strength, and associated structural engineering principles. Develops both intuitive and empirical knowledge of forces within structural systems that serve as a foundation for future courses within the Structures sequence. No student may earn credit for both 4133 and 5133. (Sp)
- 4160 Internship.** (Slashlisted with 5160) Prerequisite: ARCH 4723, 4756; or permission of director. This semester-long internship provides students with the opportunity to gain experience in an architecture office or in a related field. Students typically track their hours through the National Council of Architectural Registration Boards Internship Development Program (IDP), which defines acceptable type of work environments. Students may, for example, chose to work for a licensed architect, an interior designer, a building contractor, or in some cases in other types of work environments. Students are required to work at least 420 hours. No students may earn credit for both ARCH 4160 and ARCH 5160. (F, Sp, Su)
- 4233 Architectural Structures II.** (Slashlisted with 5233) Prerequisite: ARCH 2243, ARCH 2456, ARCH 2343, and ARCH 4133. Co-requisite: ARCH 3556, ARCH 4453, ARCH 4563; or permission of director. Focus is on wood, concrete, and steel as structural materials. Material properties, common manufactured systems, common material sections, and common connection types will be explored with students demonstrating the ability to develop technical details related to various structural systems. No student may earn credit for both 4233 and 5233. (F)
- 4333 Advanced Structures.** (Slashlisted with 5333) Prerequisite: ARCH 4133, 4233; or permission of director. Introduces design of structural members using reinforced concrete. It covers the structural concrete, loads, analyses of tension and compression members, bending design for beams, axial load design for columns, structural systems, and design of reinforced concrete buildings. Concrete structures as taught for architects emphasizes principles of design rather than formulaic calculations. It emphasizes learning through project based collaborations. No student may earn credit for both 4333 and 5333. (F)
- 4453 Modern and Contemporary Architecture.** (Slashlisted with 5453) Prerequisite: Junior level standing; or permission of director. The course focus is on the relationship between architectural theories and projects during culture and the modern era. It considers how particular historical contexts shaped theories of design as well as how architects responded to the change. The course examines the relationship between the constructed environment and notions of modernity, developments in technology, building traditions, and politics. No student may earn credit for both 4453 and 5453. (F)
- 4543 Architectural Theory and Criticism.** (Slashlisted with 5543) Prerequisite: Junior level standing; or permission of director. The development of research and academic writing in an urban and architectural context. Development of critical and analytical writing skills through the use of original research and/or analysis term papers. Topics may range from periods, politics, technology, economics, religion, gender, and culture. Open to non-architecture majors to encourage interdisciplinary research/writing. No student may earn credit for both 4543 and 5543. (Sp)
- 4563 Methods V – Sustainable and Resilient Systems II.** (Slashlisted with ARCH 5563) Prerequisites: ARCH 2463, ARCH 2456, ARCH 2343, ARCH 4133 with a grade of C or better. Co-requisite: ARCH 3556, ARCH 4453, ARCH 4233; or permission of director. Introduction to plumbing, lighting, acoustics, and other auxiliary systems that impact the Creating-Making of the built environment. These systems are discussed in relation to issues of sustainability and human comfort. Codes and standards that effect building design will be introduced and discussed. No student may earn credit for both 4563 and 5563. (F)
- 4663 Methods VI – Urban Design Methodologies.** (Slashlisted with ARCH 5663) Prerequisites: ARCH 4563, ARCH 3556, ARCH 4233, ARCH 4453 with a grade of C or better. Co-requisites: ARCH 3656, ARCH 4543; or permission of program director. This course provides, through an architect's lens, an introduction to urban design, an overview of its history, and a cross section of contemporary strategies to effect desired urban design conditions. Urban design concepts contribute to the prospective architect's ability to enhance the quality of public space in urban and sub-urban areas through successful pedestrian-oriented spaces and corresponding appropriately articulated architecture. The course content may support design work developed in studios of the architecture curriculum. (Sp)
- 4723 Methods VII – Advanced Systems.** (Slashlisted with 5723) Prerequisites: ARCH 4543, ARCH 4663, ARCH 3656 with a grade of C or better. Co-requisites: ARCH 4756; or permission of director. Introduction to advanced issues of structure, building systems, sustainability, and integrated building management systems. Course material will develop advanced understanding of the theories and practices of these complex systems and their effects on the built environment. No student may earn credit for both 4723 and 5723. (F)
- 4756 Design VII – Systems and Context.** Prerequisites: ARCH 4543, ARCH 4663, ARCH 3656 with a grade of C or better. Co-requisites: ARCH 4723; or permission of director. This course emphasizes the relationship of schematic design to contract documents in order to understand structural, mechanical, electrical, plumbing, and other systems within buildings. Students demonstrate an understanding of drafting conventions, the production of traditional contract documents, Building Information Modeling, and the communication of additional solutions necessary for construction. The course will also include the demonstration of urban design principles within the context of an urban site. A major component of the course is dedicated to developing interdisciplinary and collaborative skills through team-based projects and other small group exercises. (F)[V]
- 4923 Methods IX – Entrepreneurial Architect and Leadership.** (Slashlisted with ARCH 5923) Prerequisites: ARCH 4723, ARCH 4756, ARCH 4333 with a grade of C or better. Co-requisites: ARCH 4956; or permission of director. This course explores finance and leadership issues that currently confront the development, design, and construction industries. Expertise and decision-making capabilities will be explored through the latest approaches to capital assembly, financial analysis, leadership, negotiation, and resource and design innovation. No student can earn credit for both ARCH 4923 and ARCH 5923. (F)
- 4956 Design IX – Options Studio I.** Prerequisites: ARCH 4723, ARCH 4756, ARCH 4333 with a grade of C or better. Co-requisites: ARCH 4923; or permission of director. Advanced architectural design projects which incorporate an increased complexity and scale. The projects vary in type and scope which includes service learning and design competitions. (F)