

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN
ARCHITECTURAL ENGINEERING/MASTER OF SCIENCE**
GALLOGLY COLLEGE OF ENGINEERING
THE UNIVERSITY OF OKLAHOMA

Academic Year
For Students Entering the Oklahoma State System for Higher Education Summer 2019 through Spring 2020

General Requirements	
Minimum Total Credit Hours	154-156
Minimum Retention/Graduation Grade Point Averages:	
Overall - Combined and OU	3.00
Major - Combined and OU	3.00

Program
Architectural Engineering/ Civil Engineering
A035/F190 Q116
Bachelor of Science in Architectural Engineering/Master of Science

OU encourages students to complete at least 31 hours of applicable coursework each year to have the opportunity to graduate in 5 years.

B.S. Portion of the Program Accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>

Year	FIRST SEMESTER		Hours	SECOND SEMESTER		Hours
FRESHMAN	ENGL 1113	Principles of English Composition (Core I)	3	ENGL 1213 or EXPO 1213	Principles of English Composition (Core I) or Expository Writing	3
		Choose one of the following:	4	MATH 2924	Differential and Integral Calculus II ¹	4
	GEOL 1114	Physical Geology for Science and Engineering Majors		PHYS 2514	General Physics for Engineering and Science Majors (Core II)	4
		MATH (calculus or above)		ARCH 1263	Methods II - Pattern of Architecture	3
		Basic Science Elective		P SC 1113	American Federal Government (Core III)	3
	MATH 1914	Differential and Integral Calculus I (Core I) ¹	4			
	ENGR 1410	Freshman Engineering Orientation ²	0			
	CEES 1112	Introduction to Civil Engineering and Environmental Science	2			
ARCH 2363	Materials and Form	3				
	CREDIT HOURS	16		CREDIT HOURS	17	
SOPHOMORE	ARCH 2243	History of the Built Environment I (Core IV: Western Civilization & Culture)	3	CHEM 1315	General Chemistry (Core II) ⁴	5
	MATH 2934	Differential and Integral Calculus III ¹	4	ENGR 2002	Professional Development	2
	PHYS 2524	General Physics for Engineering and Science Majors	4	MATH 3113	Introduction to Ordinary Differential Equations	3
	CEES 1000	CEES Seminar ³	0	CEES 1000	CEES Seminar ³	0
	CEES 2213	CADD Fundamentals	3	CEES 2153	Mechanics of Materials	3
	CEES 2113	Statics	3	CEES 2223	Fluid Mechanics	3
	CREDIT HOURS	17		CREDIT HOURS	16	
JUNIOR	AME 2213	Thermodynamics	3	AME 3173	Heat Transfer	3
	CEES 1000	CEES Seminar ³	0	CEES 1000	CEES Seminar ³	0
	CEES 3263	Introduction to Dynamics for Architectural and Civil Engineers	3	CEES 3403	Materials	3
	CEES 3363	Soil Mechanics	3	CEES 3663	Structural Design - Steel I	3
	CEES 3361	Soil Mechanics Laboratory	1	CEES 4113	Building Lighting and Electrical Systems	3
	CEES 3413	Structural Analysis I	3	ENGL 3153	Technical Writing	3
	ENGR 2431	Electrical Circuits	1	CEES 3453	Introduction to Construction Management	3
	ENGR 3401	Engineering Economics	1			
	CREDIT HOURS	15		CREDIT HOURS	18	
SENIOR	AME 4653	Air Conditioning Systems	3		Choose one of the following:	3
	CEES 1000	CEES Seminar ³	0	ANTH 4623	Approaches to Cross-Cultural Human Problems	
	CEES 3673	Structural Design - Concrete I	3		Approved substitute (Core IV, Non-Western Civ.) ⁶	
		CEES Professional Elective ⁵	3	CEES 1000	CEES Seminar ³	0
	CEES 4753	Structural Design - Wood	3	CEES 4333	Foundation Engineering	3
	CEES 4991	Introduction to AE Capstone	1	CEES 4993	Architecture Engineering Capstone	3
	HIST 1483 or HIST 1493	United States, 1492 to 1865 (Core IV) or United States, 1865 to the Present	3		Approved Elective: Social Science (Core III) ⁶	3
					Approved Elective: Artistic Forms (Core IV) ⁶	3
	CREDIT HOURS	16		CREDIT HOURS	15	
FIFTH YEAR		CEES Graduate-level Elective ⁷	2-3		Choose one of the following:	1-3
		CEES Graduate-level Elective ⁷	3	CEES 5021	Technical Communications	
		CEES Graduate-level Elective ⁷	3		Graduate-level Elective ⁷	
		CEES Graduate-level Elective ⁷	3		Choose one of the following: ⁸	5-6
				CEES 5980	Research for Master's Thesis	
					Graduate-level Elective ⁷	
				CEES Graduate-level Elective ⁷	3	
				CEES Graduate-level Elective ⁷	3	
	CREDIT HOURS	11-12		CREDIT HOURS	12-15	

¹ MATH 1823, MATH 2423, MATH 2433, and MATH 2443 sequence can be substituted for MATH 1914, MATH 2924, and MATH 2934.

² Engineering transfer students may take ENGR 3410 in place of ENGR 1410.

³ Students must complete a minimum of four semesters of CEES 1000.

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⁴ CHEM 1315 can be substituted with CHEM 1335 (Fall only).

⁵ Professional Elective can be chosen from any 3000-level or higher course in CEES

⁶ To be chosen from the University-Wide General Education Approved Course List. Three of these 12 hours must be upper-division (3000-4000). See list in the Class Schedule.

⁷ Fourth- and fifth-year graduate courses must satisfy approved Civil Engineering requirements for the Master of Science.

⁸ Dependent upon whether a student chooses the thesis or non-thesis option. Non-thesis option additionally requires: **CEES Graduate-level Elective** (6 hrs.).

In order to progress in your curriculum in the Gallogly College of Engineering, and as a specific graduation requirement, a grade of C or better is required in each course in the curriculum, including all prerequisite courses.

Admission to the accelerated program is by application and requires a minimum GPA of 3.20. Students may enter the accelerated program based on the undergraduate degree pattern offered in the year they first enrolled in the Oklahoma State System of Higher Education or later. Students are eligible for graduate status upon graduation with the Bachelor of Science in Architectural Engineering.

Two college-level courses in a single foreign language are required; this may be satisfied by successful completion of 2 years in a single foreign language in high school. Students who must take foreign language at the University will have an additional 6-10 hours of coursework.

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.