REQUIREMENTS FOR THE BACHELOR OF SCIENCE

GALLOGLY COLLEGE OF ENGINEERING

THE UNIVERSITY OF OKLAHOMA

Academic Year

For Students Entering the Oklahoma State System for Higher Education Summer 2022 through Spring 2023

General Requirements	
Minimum Total Credit Hours	130
Minimum Retention/Graduation Grade Point Averages:	
Overall - Combined and OU	2.00
Major - Combined and OU	2.00
Curriculum - Combined and OU	2.00

Program
Architectural Engineering
B035
Bachelor of Science

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OU encourages students to complete at least 33 hours of applicable coursework each year to have the opportunity to graduate in 4 years.

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GENERAL EDUCATION AND COLLEGE REQUIREMENTS

Courses designated as Core I, II, III, IV, or V 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 P/NP will not apply.

A grade of C or better is required in each course in the curriculum, including all prerequisite courses.

UNIVERSITY-WIDE GENERAL EDUCATION (MINIMUM 40 HOURS) AND COLLEGE REQUIREMENTS

Code	Title	Credit Hours
Core Area I: Symbolic	c and Oral Communication	
English Composition		
ENGL 1113	Principles of English Composition	3
ENGL 1213	Principles of English Composition	3
or EXPO 1213	Expository Writing	
Language (0-10 hours		
•	be met by two years of the same language in high school:	0-10
Beginning Course		
	continued (0-5 hours)	
Mathematics		
MATH 1914	Differential and Integral Calculus I (Core I) 1, 2	4
Core Area II: Natural	Science (including one laboratory)	
PHYS 2514	General Physics for Engineering and Science Majors (Core II) 2	4
CHEM 1315	General Chemistry (Core II-Lab) ²	5
or CHEM 1335	General Chemistry I: Signature Course	
Core Area III: Social	Science	
P SC 1113	American Federal Government	3
Choose one course ³		3
Core Area IV: Arts &	Humanities	
Artistic Forms		
Choose one course 3		3
Western Culture		
HIST 1483	United States to 1865	3
or HIST 1493	United States, 1865 to the Present	
Will be satisfied in ma	jor requirements	0
ARCH 2243	History of the Built Environment I (Core IV-Western Culture)	
World Culture		
ANTH 4623	Approaches to Cross-Cultural Human Problems (or approved substitute Core IV-World Culture) ³	3
Core Area V: First-Ye	ear Experience	
Choose one course ³		3
Total Credit Hours		37-47
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- ¹MATH 1823, MATH 2423, MATH 2433, and MATH 2443 sequence can be substituted for MATH 1914, MATH 2924, and MATH 2934.
- $^2\mathrm{Major}$ support requirements that also satisfy University General Education requirements.
- $^3{\rm To}$ be chosen from the University-Wide General Education Approved Course List. Three of these hours must be upper-division (3000-4000).

FREE ELECTIVES

Electives to bring total applicable hours to the minimum total required for the degree including a minimum of 40 upper-division hours.

ACCREDITED BY THE ENGINEERING ACCREDITATION COMMISSION OF ABET, https://www.abet.org

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.

MAJOR REQUIREMENTS

Required Courses AME 2213 AME 3173 AME 4653 ARCH 1263	Thermodynamics Heat Transfer Air Conditioning Systems Methods II - Pattern of Architecture History of the Built Environment I Materials and Form CEES Seminar (minimum of four semesters required)	3 3 3 3
AME 3173 AME 4653	Heat Transfer Air Conditioning Systems Methods II - Pattern of Architecture History of the Built Environment I Materials and Form	3 3 3
AME 4653	Air Conditioning Systems Methods II - Pattern of Architecture History of the Built Environment I Materials and Form	3 3 3 3 3
	Methods II - Pattern of Architecture History of the Built Environment I Materials and Form	3
ARCH 1263	History of the Built Environment I Materials and Form	3
	Materials and Form	
ARCH 2243		3
ARCH 2363	CEES Seminar (minimum of four semesters required)	
CEES 1000		0
CEES 1112	Introduction to Civil Engineering and Environmental Science	2
CEES 2113	Statics	3
CEES 2153	Mechanics of Materials	3
CEES 2213	CADD Fundamentals	3
CEES 2223	Fluid Mechanics	3
CEES 3263	Introduction to Dynamics for Architectural and Civil Engineers	3
CEES 3361	Soil Mechanics Laboratory	1
CEES 3363	Soil Mechanics	3
CEES 3403	Materials	3
CEES 3413	Structural Analysis I	3
CEES 3453	Introduction to Construction Management	3
CEES 3663	Structural Design - Steel I	3
CEES 3673	Structural Design - Concrete I	3
CEES 4113	Building Lighting and Electrical Systems	3
CEES 4333	Foundation Engineering	3
CEES 4753	Structural Design - Wood	3
CEES 4991	Introduction to AE Capstone	1
CEES 4993	Architecture Engineering Capstone	3
ENGR 2431	Electrical Circuits	1
ENGR 3401	Engineering Economics	1
Professional Elective		
Choose any 3000-level	or higher course in CEES	3
Total Credit Hours		72

MAJOR SUPPORT REQUIREMENTS

Code	Title	Credit Hours			
Math and Science					
MATH 2924	Differential and Integral Calculus II	4			
MATH 2934	Differential and Integral Calculus III	4			
MATH 3113	TH 3113 Introduction to Ordinary Differential Equations				
PHYS 2524	General Physics for Engineering and Science Majors	4			
Choose one of the follo	4				
GEOL 1114	Physical Geology for Science and Engineering Majors (Core II-Lab)				
Basic Science Elect	ive				
Math (calculus or a	above)				
Additional College Re	equirements				
ENGR 1410	Freshman Engineering Orientation ¹	0			
ENGR 2002	Professional Development	2			
Total Credit Hours		21			

¹Engineering transfer students may take ENGR 3410 in place of ENGR 1410.

More information in the catalog: (http://ou-public.courseleaf.com/gallogly-engineering/civil-engineering-environmental-science/architectural-engineering-bachelor-science/).

SUGGESTED SEMESTER PLAN OF STUDY

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org

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.

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

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 (Core II-Lab)		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			Approved Elective: First-Year Experience (Core V) ⁶	3
	MATH 1914	Differential and Integral Calculus I (Core I) $^{\mathrm{1}}$	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
	ARCH 2243	History of the Built Environment I (Core IV: Western Culture)	3	CHEM 1315	General Chemistry (Core II-Lab) ⁴	5
SOPHOMORE	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
S	CEES 2113	Statics	3	CEES 2223	Fluid Mechanics	3
		CREDIT HOURS	17		CREDIT HOURS	16
	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
OR	CEES 3363	Soil Mechanics	3	CEES 3663	Structural Design - Steel I	3
JUNIOR	CEES 3361	Soil Mechanics Laboratory	1	CEES 4113	Building Lighting and Electrical Systems	3
E	CEES 3413	Structural Analysis I	3	CEES 3453	Introduction to Construction Management	3
	ENGR 2431	Electrical Circuits	1	ENGR 3401	Engineering Economics	1
	P SC 1113	American Federal Government (Core III)	3			_
		CREDIT HOURS	17		CREDIT HOURS	16
	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 (Core IV-World Culture)	
	CEES 3673	Structural Design - Concrete I	3		Approved substitute (Core IV-World Culture)	
×		CEES Professional Elective ⁵	3	CEES 1000	CEES Seminar ³	0
SENIOR	CEES 4753	Structural Design - Wood	3	CEES 4333	Foundation Engineering	3
SET	CEES 4991	Introduction to AE Capstone	1	CEES 4993	Architecture Engineering Capstone	3
	HIST 1483 or HIST 1493	United States 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

 $^{^1\,\,\}mathrm{MATH}\,1823,\mathrm{MATH}\,2423,\mathrm{MATH}\,2433,\mathrm{and}\,\,\mathrm{MATH}\,2443\,\mathrm{sequence}\,\,\mathrm{can}\,\,\mathrm{be}\,\,\mathrm{substituted}\,\,\mathrm{for}\,\,\mathrm{MATH}\,1914,\mathrm{MATH}\,2924,\mathrm{and}\,\,\mathrm{MATH}\,2934.$

Courses designated as Core I, II, III, IV, or V are part of the General Education curriculum. Students must complete a minimum of 40 hours of General Education courses, chosen from the approved list.

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.

 $^{^4\,}$ 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 hours must be upper-division (3000-4000). See list in the Class Schedule.