REQUIREMENTS FOR THE BACHELOR OF SCIENCE GALLOGLY COLLEGE OF ENGINEERING THE UNIVERSITY OF OKLAHOMA

Academic Year	General Requirements	Program
For Students Entering the Oklahoma	Minimum Total Credit Hours	Environmental Engineering
State System for Higher Education	Overall - Combined and OU 2.00	B390
Summer 2024 through Spring 2025	Major - Combined and OU 2.00 Curriculum - Combined and OU 2.00	Bachelor of Science

OU encourages students to complete at least 32 hours of applicable coursework each year to have the opportunity to graduate in 4 years.

Minimum Total Credit Hours: 126

Overall GPA - Combined and OU: 2.00 Major GPA - Combined and OU: 2.00 Curriculum GPA - Combined and OU: 2.00

Program Code: B390

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 upperdivision 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.

CodeTitleCredit HoursCore Area I: Symbolic and Oral CommunicationEnglish CompositionEnglish CompositionENGL 1113Principles of English CompositionENGL 1213Principles of English Compositionor EXPO 1213Expository WritingLanguage (0-10 hours in the same language)0-10This requirement can be met by two years of the same language in high school:0-10Beginning Course (0-5 hours)0Beginning Course, continued (0-5 hours)0Mathematics0MATH 1914Differential and Integral Calculus I (Core I) ^{1, 2} 4Core Area II: Natural Science (including one laboratory)4PHYS 2514General Physics for Engineering and Science Majors (Core II) ² 5or CHEM 1315General Chemistry (Core II-Lab) ² 5or CHEM 1335General Chemistry I: Signature Course5P SC 1113American Federal Government3Choose one course ³ 33Core Area IV: Arts Humanities33Artistic Forms33	UNIVERSITY-WIDI	E GENERAL EDUCATION (MINIMUM 40 HOURS) AI Ements	ND
English CompositionENGL 1113Principles of English Composition3ENGL 1213Principles of English Composition3or EXPO 1213Expository Writing3Language (0-10 hours in the same language)0This requirement can be met by two years of the same language in high school:0-10Beginning Course (0-5 hours)0Beginning Course (of 5 hours)0Beginning Course continued (0-5 hours)0Mathematics0MATH 1914Differential and Integral Calculus I (Core I) ^{1, 2} 4Core Area II: Natural Science (including one laboratory)0PHYS 2514General Physics for Engineering and Science Majors (Core II) 25or CHEM 1315General Chemistry (Core II-Lab) 25or CHEM 1335General Chemistry I: Signature Course5Core Area III: Social Science33Choose one course ³ 33Core Area IV: Arts & Humanities33Artistic Forms33	Code	-	
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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	CHEM 1315	General Chemistry (Core II-Lab) ²	5
P SC 1113 American Federal Government 3 Choose one course ³ 3 Core Area IV: Arts & Humanities Artistic Forms	or CHEM 1335	• • •	
Choose one course ³ 3 Core Area IV: Arts & Humanities Artistic Forms	Core Area III: Soci	al Science	
Core Area IV: Arts & Humanities Artistic Forms	P SC 1113	American Federal Government	3
Core Area IV: Arts & Humanities Artistic Forms	Choose one course	3	3
Artistic Forms			
	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	
HSTM 3333	Technology and Society in World History (or	3
	approved substitute Core IV-Western Culture) ³	
World Culture		
ANTH 4623	Approaches to Cross-Cultural Human Problems (or approved substitute Core IV-World Culture) 3	3
Core Area V: First	-Year Experience	
ENGR 1413	Pathways to Engineering Thinking (Core V-FYE) 4	3
Total Credit Hours		

- ¹ MATH 1823,MATH 2423, MATH 2433, and MATH 2443 sequence can be substituted for MATH 1914, MATH 2924, andMATH 2934.
- ² Major support requirements that also satisfy University General Education requirements.
- ³ 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.
- ⁴ Transfer students will need to meet the requirements of the first-year experience course as well as the engineering transfer course. Please see your advisor for your specific enrollment.

Free Electives

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

Bachelor of Science in Environmental Engineering accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Environmental Engineering and Similarly Named Program Criteria.

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.

		Credit		
Code	Title			
Required Courses				
CEES 1000	CEES Seminar (minimum of four semesters required)	0		
CEES 1111	Exploring CEES	1		
CEES 2113	Statics	3		
CEES 2153	Mechanics of Materials	3		
CEES 2213	CADD Fundamentals	3		
CEES 2223	Fluid Mechanics	3		
CEES 2313	Water Quality Fundamentals	3		
CEES 2323	Environmental Transport and Fate Process	3		
CEES 2412	Earth Systems and Processes	2		
CEES 3213	Water Resources Engineering	3		
CEES 3243	Water and Wastewater Treatment Design	3		
CEES 3361	Soil Mechanics Laboratory	1		
CEES 3363	Soil Mechanics	3		
CEES 4114	Aquatic Chemistry	4		
CEES 4253	Statistics and Probability	3		
CEES 4263	Hazardous and Solid Waste Management	3		
CEES 4324	Environmental Biology and Ecology	4		
CEES 4921	Introduction to EE Capstone	1		
CEES 4923	Environmental Engineering Capstone	3		
CEES 4943	Air Quality Management	3		
CEES 4951	Contemporary Topics in Professional Practice	1		

Major Support Requirements Title

Code

cour		Hours
Math and Science		
CHEM 1415	General Chemistry (Continued)	5
or CHEM 1435	General Chemistry II: Signature Course	
CHEM 3053	Organic Chemistry I: Biological Emphasis	3
MATH 2924	Differential and Integral Calculus II	4
MATH 2934	Differential and Integral Calculus III	4
MATH 3113	Introduction to Ordinary Differential Equations	3
PHYS 2524	General Physics for Engineering and Science	4
	Majors	
Professional Electi	ves	
	00-level or higher course in CEES (one three-	6
hour professional e approval)	lective can be taken outside CEES with advisor	
Additional College	Requirements	

Credit

Total Credit Hours		33
ENGR 3401	Engineering Economics	1
ENGR 2461	Thermodynamics	1
	Engineers and Scientists	
ENGR 2002	Professional Responsibilities and Skills of	2

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

Suggested Semester Plan of Study

Bachelor of Science in Environmental Engineering accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Environmental Engineering and Similarly Named Program Criteria.

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
z	ENGL 1113	Principles of English Composition (Core I)	3	ENGL 1213 or EXPO 1213	Principles of English Composition (Core I) or Expository Writing	3
	CHEM 1315	General Chemistry (Core II-Lab) ¹	5	CHEM 1415	General Chemistry (Continued) (Core II-Lab) 1	5
MA	MATH 1914	Differential and Integral Calculus I (Core I) 2	4	MATH 2924	Differential and Integral Calculus II ²	4
FRESHMAN	ENGR 1413	Pathways to Engineering Thinking (Core V-FYE) $^{\rm 3}$	3	PHYS 2514	General Physics for Engineering and Science Majors (Core II)	4
				CEES 1111	Exploring CEES	1
		CREDIT HOURS	15		CREDIT HOURS	17
	MATH 2934	Differential and Integral Calculus III ²	4	MATH 3113	Introduction to Ordinary Differential Equations	3
	PHYS 2524	General Physics for Engineering and Science Majors	4	CEES 1000	CEES Seminar ⁴	0
ш	CEES 1000	CEES Seminar ⁴	0	CEES 2153	Mechanics of Materials	3
OR	CEES 2213	CADD Fundamentals	3	CEES 2223	Fluid Mechanics	3
SOPHOMORE	CEES 2113	Statics	3	CEES 2323	Environmental Transport and Fate Process	3
DHd	CEES 2313	Water Quality Fundamentals	3	CEES 2412	Earth Systems and Processes	2
so				ENGR 2002	Professional Responsibilities and Skills of Engineers and	2
				1	Scientists	
		CREDIT HOURS	17		CREDIT HOURS	16
	CHEM 3053	Organic Chemistry I: Biological Emphasis	3	HSTM 3333	Technology and Society in World History (or approved substitute) (Core IV, Western Culture)	3
	CEES 1000	CEES Seminar ⁴	0	CEES 1000	CEES Seminar ⁴	0
~	CEES 3213	Water Resources Engineering	3	CEES 3243	Water and Wastewater Treatment Design	3
IUNIOR	CEES 3363	Soil Mechanics	3	CEES 4253	Statistics and Probability	3
E E	CEES 3361	Soil Mechanics Laboratory	1	CEES 4943	Air Quality Management	3
	ENGR 3401	Engineering Economics	1		Approved Elective: Social Science (Core III) ⁶	3
		Professional Elective ⁵	3	ENGR 2461	Thermodynamics	1
		CREDIT HOURS	14		CREDIT HOURS	16
	HIST 1483 or HIST 1493	United States to 1865 (Core IV) or United States, 1865 to the Present	3	ANTH 4623	Approaches to Cross-Cultural Human Problems (or approved substitute) (Core IV, World Culture)	3
	CEES 1000	CEES Seminar ⁴	0	P SC 1113	American Federal Government (Core III)	3
	CEES 4114	Aquatic Chemistry	4	1 00 1110	Professional Elective ⁵	3
OR	CEES 4263	Hazardous and Solid Waste Management	3		Approved Elective, Artistic Forms (Core IV) ⁶	3
SENIOR	CEES 4324	Environmental Biology and Ecology	4	CEES 1000	CEES Seminar ⁴	0
s	CEES 4921	Introduction to EE Capstone	1	CEES 4923	Environmental Engineering Capstone	3
	CEES 4951	Contemporary Topics in Professional Practice	1			-
		CREDIT HOURS	16		CREDIT HOURS	15

1 CHEM 1315 and CHEM 1415 can be substituted with CHEM 1335 (Fall only) and CHEM 1435 (Spring only), respectively.

² MATH 1823, MATH 2423, MATH 2433, and MATH 2443 sequence can be substituted for MATH 1914, MATH 2924, and MATH 2934.

³ Transfer students will need to meet the requirements of the first-year experience course as well as the engineering transfer course. Please see your advisor for your specific enrollment.

⁴ Students must complete a minimum of four semesters of CEES 1000.

- ⁵ Professional electives can be chosen from any 3000-level or higher course in CEES. One three-hour professional elective can be taken outside CEES with advisor approval.
- 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.

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.