

# 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 2021 through Spring 2022

General Requirements
Minimum Total Credit Hours ..... 125
<b>Minimum Retention/Graduation Grade Point Averages:</b>
Overall - Combined and OU ..... 2.00
Major - Combined and OU ..... 2.00

Program
Environmental Engineering
B390
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.

**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
	CHEM 1315	General Chemistry ( Core II-Lab ) <sup>1</sup>	5	CHEM 1415	General Chemistry (Continued) ( Core II-Lab ) <sup>1</sup>	5
	MATH 1914	Differential and Integral Calculus I ( Core I ) <sup>2</sup>	4	MATH 2924	Differential and Integral Calculus II <sup>2</sup>	4
	CEES 1112	Introduction to Civil Engineering and Environmental Science	2	PHYS 2514	General Physics for Engineering and Science Majors ( Core II )	4
	ENGR 1410	Freshman Engineering Orientation <sup>3</sup>	0			
		Approved Elective: First-Year Experience (Core V) <sup>6</sup>	3			
	<b>CREDIT HOURS</b>		<b>17</b>	<b>CREDIT HOURS</b>		<b>16</b>
SOPHOMORE	MATH 2934	Differential and Integral Calculus III <sup>2</sup>	4	HIST 1483 or HIST 1493	United States to 1865 ( Core IV ) or United States, 1865 to the Present	3
	PHYS 2524	General Physics for Engineering and Science Majors	4	MATH 3113	Introduction to Ordinary Differential Equations	3
	CEES 1000	CEES Seminar <sup>4</sup>	0	CEES 1000	CEES Seminar <sup>4</sup>	0
	CEES 2213	CADD Fundamentals	3	CEES 2153	Mechanics of Materials	3
	CEES 2113	Statics	3	CEES 2223	Fluid Mechanics	3
	CEES 2313	Water Quality Fundamentals	3	CEES 2323	Environmental Transport and Fate Process	3
				ENGR 2002	Professional Development	2
	<b>CREDIT HOURS</b>		<b>17</b>	<b>CREDIT HOURS</b>		<b>17</b>
JUNIOR	CHEM 3053	Organic Chemistry I: Biological Emphasis	3	HSCI 3333	Technology and Society in World History ( or approved substitute) (Core IV, Western Culture )	3
	CEES 1000	CEES Seminar <sup>4</sup>	0	CEES 1000	CEES Seminar <sup>4</sup>	0
	CEES 3213	Water Resources Engineering	3	CEES 3243	Water and Wastewater Treatment Design	3
	CEES 3363	Soil Mechanics	3	CEES 4253	Statistics and Probability	3
	CEES 3361	Soil Mechanics Laboratory	1	CEES 4943	Air Quality Management	3
	ENGR 3401	Engineering Economics	1		Approved Elective: Social Science (Core III) <sup>6</sup>	3
		Professional Elective <sup>5</sup>	3	ENGR 2461	Thermodynamics	1
	<b>CREDIT HOURS</b>		<b>14</b>	<b>CREDIT HOURS</b>		<b>16</b>
SENIOR	CEES 1000	CEES Seminar <sup>4</sup>	0	ANTH 4623	Approaches to Cross-Cultural Human Problems ( or approved substitute) (Core IV, World Culture )	3
	CEES 4114	Aquatic Chemistry	4	P SC 1113	American Federal Government ( Core III )	3
	CEES 4263	Hazardous and Solid Waste Management	3		Professional Elective <sup>5</sup>	3
	CEES 4324	Environmental Biology and Ecology	4		Approved Elective, Artistic Forms (Core IV) <sup>6</sup>	3
	CEES 4921	Introduction to EE Capstone	1	CEES 1000	CEES Seminar <sup>4</sup>	0
	CEES 4951	Contemporary Topics in Professional Practice	1	CEES 4923	Environmental Engineering Capstone	3
	<b>CREDIT HOURS</b>		<b>13</b>	<b>CREDIT HOURS</b>		<b>15</b>

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

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

<sup>3</sup> Engineering transfer students may take ENGR 3410 in place of ENGR 1410.

<sup>4</sup> Students must complete a minimum of four semesters of CEES 1000.

<sup>5</sup> 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.

<sup>6</sup> 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.