

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 121
Minimum Retention/Graduation Grade Point Averages:
Overall - Combined and OU 2.00
Major - Combined and OU 2.00

Program
Environmental Science
B405
Bachelor of Science

OU encourages students to complete at least 31 hours of applicable coursework each year to have the opportunity to graduate in 4 years.

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	BIOL 1134 or PBIO 1114	Introductory Biology: Evolution, Ecology and Diversity (Core II-Lab) or General Botany	4
	CHEM 1315	General Chemistry (Core II-Lab) ¹	5	ENGL 1213 or EXPO 1213	Principles of English Composition (Core I) or Expository Writing	3
	MATH 1823	Calculus and Analytic Geometry I (Core I) ²	3	CHEM 1415	General Chemistry (Continued) (Core II-Lab) ¹	5
	CEES 1112	Introduction to Civil Engineering and Environmental Science	2	MATH 2423	Calculus and Analytic Geometry II ²	3
	ENGR 1410	Freshman Engineering Orientation ³	0			
		Approved Elective: First-Year Experience (Core V) ⁵	3			
	CREDIT HOURS		16	CREDIT HOURS		15
SOPHOMORE	CHEM 3053	Organic Chemistry I: Biological Emphasis	3	CHEM 3153	Organic Chemistry II: Biological Emphasis	3
	PHYS 2514 or PHYS 2414	General Physics for Engineering and Science Majors (Core II) or General Physics for Life Science Oriented Majors	4	MBIO 2815	Introduction to Microbiology (Core II-Lab)	5
	CEES 2313	Water Quality Fundamentals	3	CEES 2323	Environmental Transport and Fate Process	3
	CEES 1000	CEES Seminar ⁴	0	CEES 1000	CEES Seminar ⁴	0
	CEES 2213	CADD Fundamentals	3	ENGR 2002	Professional Development	2
	BIOL 3403 or PBIO 3453	Principles of Ecology or Principles of Plant Ecology	3	HIST 1483 or HIST 1493	United States to 1865 (Core IV) or United States, 1865 to the Present	3
	CREDIT HOURS		16	CREDIT HOURS		16
JUNIOR	CEES 1000	CEES Seminar ⁴	0	ANTH 4623	Approaches to Cross-Cultural Human Problems (or approved substitute) (Core IV, World Culture)	3
	CEES 4263	Hazardous and Solid Waste Management	3		Approved Elective: Artistic Forms (Core IV) ⁵	3
	PHYS 2524 or PHYS 2424	General Physics for Engineering and Science Majors or General Physics for Life Science Oriented Majors	4	CEES 4843/5843	Hydrology	3
		CEES Track Elective ⁷	3	CEES 1000	CEES Seminar ⁴	0
		CEES Track Elective ⁷	3	CEES 4253	Statistics and Probability	3
				CEES 4943	Air Quality Management	3
	CREDIT HOURS		13	CREDIT HOURS		15
SENIOR	HSCI 3333	Technology and Society in World History (or approved substitute) (Core IV, West. Culture)	3	CEES 4913	Environmental Science Capstone	3
	CEES 1000	CEES Seminar ⁴	0	CEES 1000	CEES Seminar ⁴	0
	CEES 4911	Introduction to ES Capstone	1		CEES Track Elective ⁷	3
		CEES Professional Elective ⁶	3		CEES Professional Elective ⁶	3
	CEES 4114	Aquatic Chemistry	4		Approved Elective: Social Science (Core III) ⁵	3
	CEES 4324	Environmental Biology and Ecology	4	P SC 1113	American Federal Government (Core III)	3
	CREDIT HOURS		15	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 1914, MATH 2924, and MATH 2934 sequence can be substituted for MATH 1823, MATH 2423, MATH 2433, and MATH 2443.

³ Engineering transfer students may take ENGR 3410 in place of ENGR 1410.

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

⁵ 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.

⁶ 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.

⁷ See Student Handbook for the list of Track electives.

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. The Environmental Science electives will be selected from Civil Engineering and Environmental Science courses with the approval of the advisor.