

# REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN ENVIRONMENTAL ENGINEERING/MASTER OF SCIENCE

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

## COLLEGE OF ENGINEERING THE UNIVERSITY OF OKLAHOMA

For Students Entering the Oklahoma State System for Higher Education  
**Summer 2015 through Spring 2016**

GENERAL REQUIREMENTS	
Total Credit Hours . . . . .	150-152*
<b>Minimum Retention/Graduation Grade Point Averages:</b>	
Overall - Combined and OU . . . . .	3.00
Major - Combined and OU . . . . .	3.00
Curriculum - Combined and OU . . . . .	3.00
<b>A minimum grade of C is required for each course in the curriculum.</b>	

Environmental Engineering  
**A390**  
Bachelor of Science in Environmental Engineering/Master of Science (Envir. Engr.) **F390**

**OU encourages students to complete at least 30-31 hours of applicable coursework each year to have the opportunity to graduate in five years.**

Year	FIRST SEMESTER	Hours	SECOND SEMESTER	Hours
<b>FRESHMAN</b>	ENGL 1113, Prin. of English Composition (Core I)	3	ENGL 1213, Prin. of English Composition (Core I), <b>or</b> EXPO 1213, Expository Writing (Core I)	3
	CHEM 1315, General Chemistry (Core II)	5		
	HIST 1483, U.S., 1492-1865, <b>or</b> 1493, U.S., 1865-Present (Core IV)	3		
	♦MATH 1914, Differential and Integral Calculus I (Core I)	4	CHEM 1415, General Chemistry	5
	CEES 1112, Intro. to Civil Engr. & Environmental Science	2	♦MATH 2924, Differential and Integral Calculus II	4
	ENGR 1410, Freshman Engineering Orientation	0	PHYS 2514, General Physics for Engr. & Science (Core II)	4
	<b>TOTAL CREDIT HOURS</b>	<b>17</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>
<b>SOPHOMORE</b>	♦MATH 2934, Differential and Integral Calculus III	4	HSCI 3333, Inventing the Modern World (Core IV, West. Civ. & Culture), or approved substitute	3
	PHYS 2524, General Physics for Engr. & Science	4	MATH 3113, Introduction to Ordinary Differential Equations	3
	*CEES 1000, CEES Seminar	0		
	CEES 2213, CADD Fundamentals	3	*CEES 1000, CEES Seminar	0
	CEES 2113, Statics	3	CEES 2153, Mechanics of Materials	3
	CEES 2313, Water Quality Fundamentals	3	CEES 2223, Fluid Mechanics	3
	<b>TOTAL CREDIT HOURS</b>	<b>17</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>
<b>JUNIOR</b>	CHEM 3053, Organic Chemistry	3	ENGL 3153, Technical Writing	3
	*CEES 1000, CEES Seminar	0		
	CEES 3213, Water Resources Engineering	3	*CEES 1000, CEES Seminar	0
	CEES 3364, Soil Mechanics	4	CEES 3243, Water & Wastewater Treatment Design	3
	ENGR 2431, Electrical Circuits	1	CEES 4253, Statistics and Probability	3
	ENGR 3401, Engineering Economics	1	CEES 4943, Air Quality Management	3
§Professional Elective	3	ENGR 2461, Thermodynamics	1	
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	†Approved Elective: Social Science (Core III)	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>
<b>+ Admission to the accelerated program is by application and requires a minimum GPA of 3.20.</b>				
<b>SENIOR</b>	*CEES 1000, CEES Seminar	0	ANTH 4623, Approaches to Cross-Cultural Human Problems or approved substitute (Core IV, Non-Western Civ.)	3
	CEES 4114, Aquatic Chemistry	4	P SC 1113, American Federal Government (Core III)	3
	CEES 4263, Hazardous and Solid Waste Management	3	*CEES 1000, CEES Seminar	0
	CEES 4324, Environmental Biology and Ecology	4	CEES 4923, Environmental Engineering Capstone (Capstone)	3
	CEES 4813, Environmental Science & Environmental Engineering Professional Practice	3	§Professional Elective	3
		<b>TOTAL CREDIT HOURS</b>	<b>14</b>	†Approved Elective: Artistic Forms (Core IV)
	<b>TOTAL CREDIT HOURS</b>	<b>14</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>
<b>Students are eligible for graduate status upon graduation with the Bachelor of Science in Environmental Engineering.</b>				
<b>FIFTH YEAR</b>	♦CEES 5980, Thesis Research, <b>or</b> Graduate-level Elective	2-3	♦CEES 5980, Thesis Research, <b>or</b> Graduate-level Elective	2-3
	CEES Graduate-level Elective	4	CEES 5020, Special Topics	2
	CEES Graduate-level Elective	3	CEES 5021, Technical Communications	1
	CEES Graduate-level Elective	3	CEES Graduate-level Elective	4
		<b>TOTAL CREDIT HOURS</b>	<b>12-13</b>	CEES Graduate-level Elective
	<b>TOTAL CREDIT HOURS</b>	<b>12-13</b>	<b>TOTAL CREDIT HOURS</b>	<b>12-13</b>

♦Dependent upon whether a student chooses the thesis or non-thesis option. Non-thesis option additionally requires: CEES Graduate-level Elective (3 hrs.) and CEES 5020 Special Topics (2 hrs.), and Comprehensive Exam to be taken in the last semester of study.

†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.

NOTE: Engineering transfer students may take ENGR 3410 in place of ENGR 1410 and ENGR 1420.

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.

†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.

In the College of Engineering, in order to progress in your curriculum, and as a specific graduation requirement, a grade of C or better is required in each course in the curriculum. Please refer to the General Catalog for additional enrollment limitations.

Students must successfully complete prerequisite courses (with a minimum C grade) before proceeding to the next course.

\*Students must complete a minimum of four semesters of CEES 1000.

• 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.

§ 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 adviser approval.

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

