CIVIL ENGINEERING: ENVIRONMENTAL, BSCV

Requirements for Students Matriculating in or before Academic Year 2024-2025. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

Minimum Overall Grade Point Average: 2.00
Total Hours: 128

Code	Title	Hours
General Education Requirements		
All General Education coursework requirements are satisfied upon completion of this degree plan		
English Composition		
See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition)		
ENGL 1113	Composition I	3
or ENGL 1313	Critical Analysis and Writing I	
ENGL 3323	Technical Writing	3
or ENGL 1213	Composition II	
or ENGL 1413	Critical Analysis and Writing II	
American History & Government		
Select one of the following:		3
HIST 1103	Survey of American History	
HIST 1483	American History to 1865 (H)	
HIST 1493	American History Since 1865 (DH)	
POLS 1113	American Government	3
Analytical & Quantitative Thought (A)		
MATH 2144	Calculus I (A)	4
MATH 2153	Calculus II (A)	3
Humanities (H)		
Courses designated (H)		6
Natural Sciences (N)		
Must include one Laboratory Science (L) course.		
CHEM 1414	General Chemistry for Engineers (LN) [1]	4
or CHEM 1314	Chemistry I (LN)	
Select four hours from the following:		4
BIOC 2344	Chemistry and Applications of Biomolecules	
BIOL 1114	Introductory Biology (LN)	
BIOL 1113 & BIOL 1111	Introductory Biology (N) and Introductory Biology Laboratory (LN)	
PHYS 2014	University Physics I (LN)	4
Social & Behavioral Sciences (S)		
SPCH 2713	Introduction to Speech Communication (S)	3
Hours Subtotal		**40**
Diversity (D) & International Dimension (I)		
May be completed in any part of the degree plan.		
Select at least one Diversity (D) course		
Select at least one International Dimension (I) course		
College/Departmental Requirements		
UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
Mathematics		
MATH 2163	Calculus III	3
Basic Science		
Select one of the following options:		5
PHYS 2114 & CIVE 2081	University Physics II (LN) and Environmental Chemistry for Engineers	
or		
CHEM 1515	Chemistry II (LN)	
Engineering		
ENGR 1322	Engineering Design with CAD	2
ENGR 1412	Introductory Engineering Computer Programming	2
Engineering Science		
ENSC 2113	Statics	3
ENSC 2123	Elementary Dynamics	3
ENSC 2143	Strength of Materials	3
ENSC 2141	Strength of Materials Lab	1
Civil Engineering		
CIVE 2041	Civil and Environmental Engineering Seminar	1
CIVE 3614	Engineering Surveying	4
CIVE 3813	Environmental Engineering Science	3
Hours Subtotal		**31**
Major Requirements		
Mathematics		
MATH 2233	Differential Equations	3
STAT 4033	Engineering Statistics	3
or STAT 4073	Engineering Statistics with Design of Experiments	
Engineering Science		
ENSC 3233	Fluid Mechanics	3
ENSC 3231	Fluids and Hydraulics Lab	1
Civil Engineering		
CIVE 3413	Structural Analysis	3
CIVE 3523	Reinforced Concrete Design	3
CIVE 3853	Environmental Engineering Laboratory	3
CIVE 3623	Engineering Materials Laboratory	3
CIVE 3633	Transportation Engineering	3
CIVE 3714	Introduction to Geotechnical Engineering	4
CIVE 3833	Applied Hydraulics	3
CIVE 3843	Hydrology I	3
CIVE 4041	Engineering Practice	1
CIVE 4143	Environmental Engineering Design	3
CIVE 4273	Construction Engineering and Project Management	3
CIVE 4833	Unit Operations in Environmental Engineering	3
Industrial Engineering & Management		
IEM 3503	Engineering Economic Analysis	3
Hours Subtotal		**48**
Electives		
Select 9 hours of the following:		9

CIVE 4010	Civil Engineering Research
CIVE 4013	Aquatic Chemistry
CIVE 4033	GIS Applications for Water Resources
CIVE 4050	Special Topics in Civil & Environmental Engineering
CIVE 4123	The Legal & Regulatory Environment of Civil Engineering
CIVE 4243	Use and Design of Geosynthetics
CIVE 4863	Advanced Unit Operations in Environmental Engineering
CIVE 4873	Air Pollution Control Engineering
CIVE 4883	Introduction to Environmental Modeling
CIVE 4913	Groundwater Hydrology
CIVE 4923	Environ Risk Assessment
CIVE 4933	Water Treatment
CIVE 4943	Risk and Failure Analysis of Dams
CIVE 4963	Open Channel Flow
CIVE 4983	Residuals & Solid Waste Management
ENGR 4043 or ENGR 4060 may be used for one CIVE elective.	
Hours Subtotal	**9**
Total Hours	**128**

[1]

CHEM 1515 fulfills the requirements for both CHEM 1414 and CIVE 2081.

Graduation Requirements

1. A minimum 2.00 Technical GPA. The technical GPA is calculated from all courses counting in the curriculum with a prefix belonging to the degree program, or substitutions for these courses.
2. If “B” or higher is not earned in ENGL 1113 Composition I, then ENGL 1213 Composition II must be completed.
3. A "C" or better is required in all CIVE, ENSC, and Math prefixed courses required in the degree.
4. The major engineering design experience, capstone course, is satisfied by CIVE 4143 Environmental Engineering Design.

Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2030.