## **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				
3	lation 3.5 (http://catalog.okstate.edu/ -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 & G	overnment			
Select one of the fol	lowing:	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 & Quantita	tive Thought (A)			
MATH 2144	Calculus I (A)	4		
MATH 2153	Calculus II (A)	3		
Humanities (H)				
Courses designated (H)				
Natural Sciences (N)				
Must include one La	boratory Science (L) course.			
CHEM 1414	General Chemistry for Engineers (LN) 1	4		
or CHEM 1314	Chemistry I (LN)			
Select four hours fro	Select four hours from the following:			
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 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/Department	**			

Mathematics  MATH 2163 Calculus III 3  Basic Science  Select one of the following options: 5 PHYS 2114 University Physics II (LN) & CIVE 2081 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  Engineering Science ENSC 2113 Statics 3 ENSC 2123 Elementary Dynamics 3 ENSC 2123 Elementary Dynamics 3 ENSC 2141 Strength of Materials 13 ENSC 2141 Strength of Materials 14  EVIL Engineering  CIVE 2041 Civil and Environmental Engineering Science 3 ENSC 2141 Engineering Surveying 4 EVIL Engineering  CIVE 3813 Environmental Engineering Science 3 Hours Subtotal Major Requirements  MATH 2233 Differential Equations 3 STAT 4033 Engineering Statistics 3 STAT 4033 Engineering Statistics 3 STAT 4073 Engineering Science  ENSC 3231 Fluid Mechanics 3 ENSC 3231 Fluid Mechanics 3 ENSC 3231 Fluid Sand Hydraulics Lab 1  CiVIE 3813 Environmental Engineering Laboratory 3 ENSC 3231 Fluids and Hydraulics Lab 1  CiVIE 3833 Environmental Engineering Laboratory 3 CIVE 3413 Structural Analysis 3 CIVE 3623 Engineering Materials Laboratory 3 CIVE 3633 Transportation Engineering 4 CIVE 3834 Hydrology I 3 CIVE 3835 Engineering Practice 1 CIVE 4836 Unit Operations in Environmental Engineeri	UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
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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 1  Industrial Engineering & Management 1  IEM 3503 Engineering Economic Analysis 3  Hours Subtotal 48  Electives	ENSC 3233	Fluid Mechanics	3
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 Industrial Engineering & Management IEM 3503 Engineering Economic Analysis 3 Hours Subtotal 48 Electives	ENSC 3231	Fluids and Hydraulics Lab	1
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 CIVE 4833 Unit Operations in Environmental Engineering Industrial Engineering & Management IEM 3503 Engineering Economic Analysis 3 Hours Subtotal 48 Electives	Civil Engineering		
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 CIVE 4833 Unit Operations in Environmental 5 Engineering Industrial Engineering & Management IEM 3503 Engineering Economic Analysis 3 Hours Subtotal 48 Electives	CIVE 3413	Structural Analysis	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 3 Management CIVE 4833 Unit Operations in Environmental 2 Engineering Industrial Engineering & Management IEM 3503 Engineering Economic Analysis 3 Hours Subtotal 48 Electives	CIVE 3523	Reinforced Concrete Design	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 3 Management CIVE 4833 Unit Operations in Environmental 2 Engineering Industrial Engineering & Management IEM 3503 Engineering Economic Analysis 3 Hours Subtotal 48 Electives	CIVE 3853	Environmental Engineering Laboratory	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 CIVE 4833 Unit Operations in Environmental 5 Engineering Industrial Engineering & Management IEM 3503 Engineering Economic Analysis 3 Hours Subtotal 48 Electives	CIVE 3623	Engineering Materials Laboratory	3
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 CIVE 4833 Unit Operations in Environmental Engineering Industrial Engineering & Management IEM 3503 Engineering Economic Analysis 3 Hours Subtotal 48 Electives	CIVE 3633	Transportation Engineering	3
CIVE 3843 Hydrology I 3 CIVE 4041 Engineering Practice 1 CIVE 4143 Environmental Engineering Design 3 CIVE 4273 Construction Engineering and Project Management CIVE 4833 Unit Operations in Environmental Engineering Industrial Engineering & Management IEM 3503 Engineering Economic Analysis 3 Hours Subtotal 48 Electives	CIVE 3714	Introduction to Geotechnical Engineering	4
CIVE 4041 Engineering Practice 1 CIVE 4143 Environmental Engineering Design 3 CIVE 4273 Construction Engineering and Project Management CIVE 4833 Unit Operations in Environmental Engineering Industrial Engineering & Management IEM 3503 Engineering Economic Analysis 3 Hours Subtotal 48 Electives	CIVE 3833	Applied Hydraulics	3
CIVE 4143 Environmental Engineering Design 3 CIVE 4273 Construction Engineering and Project Management CIVE 4833 Unit Operations in Environmental Engineering Industrial Engineering & Management IEM 3503 Engineering Economic Analysis 3 Hours Subtotal 48 Electives	CIVE 3843	Hydrology I	3
CIVE 4273 Construction Engineering and Project Management CIVE 4833 Unit Operations in Environmental Engineering Industrial Engineering & Management IEM 3503 Engineering Economic Analysis 3 Hours Subtotal 48 Electives	CIVE 4041	Engineering Practice	1
Management  CIVE 4833 Unit Operations in Environmental 3 Engineering  Industrial Engineering & Management  IEM 3503 Engineering Economic Analysis 3  Hours Subtotal 48  Electives	CIVE 4143	Environmental Engineering Design	3
Engineering Industrial Engineering & Management  IEM 3503 Engineering Economic Analysis 3 Hours Subtotal 48 Electives	CIVE 4273		3
IEM 3503 Engineering Economic Analysis 3 Hours Subtotal 48 Electives	CIVE 4833		3
Hours Subtotal 48 Electives	Industrial Engineering	g & Management	
Hours Subtotal 48 Electives	IEM 3503	Engineering Economic Analysis	3
	Hours Subtotal		48
Select 9 hours of the following: 9	Electives		
	Select 9 hours of the	following:	9

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

Total Hours 129

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.
- 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; onefourth 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.