## **CIVIL ENGINEERING, BSCV**

Requirements for Students Matriculating in or before Academic Year 2025-2026. 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

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 Quantitative Thought & Logical Reasoning (Q) MATH 2144 Calculus I (Q) 4 MATH 2153 Calculus II (Q) 3 Understanding Humanities-Human Heritage & Cultures (H) Courses designated (H) 3 Courses designated (DH) Reasoning in the Natural Sciences (N) Must include one Laboratory-Based Inquiry (L) course. CHEM 1414 General Chemistry for Engineers (LN) <sup>1</sup> 4 or CHEM 1314 Chemistry I (LN) BIOL 1114 Introductory Biology (LN) 4 or BIOL 1113 Introductory Biology (LN) & BIOL 1114 Physical Geology (LN) PHYS 2014 University Physics I (LN) 4 Exploring Society & Human Behavior (S) Courses designated (GS) 3	Code	Title	Hours
upon completion of this degree planEnglish CompositionSee Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition)ENGL 1113Composition Ior ENGL 1313Critical Analysis and Writing IENGL 3323Technical Writingor ENGL 1213Composition IIor ENGL 1413Critical Analysis and Writing IIAmerican History & GovernmentSelect one of the following:3HIST 1103Survey of American HistoryHIST 1483American History to 1865 (H)HIST 1493American History Since 1865 (DH)POLS 1113American Government3Quantitative Thought & Logical Reasoning (Q)4MATH 2153Calculus I (Q)MATH 2153Calculus I (Q)Courses designated (H)3Courses designated (DH)3Reasoning in the Natural Sciences (N)4Must include one Laboratory-Based Inquiry (L) course.CHEM 1314Chemistry I (LN)BIOL 1113Introductory Biology (LN)& BIOL 1114Introductory Biology (LN)& BIOL 1113and Introductory Biology Laboratory (LN)or GEOL 1114Physical Geology (LN)& BIOL 1113Introductory Biology Laboratory (LN)or GEOL 1114Physical Geology (LN)& BIOL 1113and Introductory Biology Laboratory (LN)or GEOL 1114Physical Geology (LN)& BIOL 1113and Introductory Biology Laboratory (LN)or GEOL 1114Physical Geology (LN)& BIOL 1113and In	General Education	Requirements	
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Additional General Education	May be paired with	another designated course	
	Additional General E	ducation	

Additional general education credit hours may be required to meet the total 40-hour minimum of general education credit if courses carry more than one general education designation and can be used to meet multiple general education designation hour requirements above.

requirements above.		
Courses designated	(Q), (H), (N), (S), (D), (G), or (F).	0
Hours Subtotal		40
College/Departmenta	al Requirements	
UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
Basic Science		
Select one of the foll	owing options: <sup>1</sup>	5
PHYS 2114 & CIVE 2081	University Physics II (LN) and Environmental Chemistry for Engineers 1	
or		
CHEM 1515	Chemistry II (LN) <sup>1</sup>	
Mathematics		
MATH 2163	Calculus III	3
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 Experi	ments
Engineering Science		
ENSC 3233	Fluid Mechanics	3
ENSC 3231	Fluids and Hydraulics Lab	1
Civil Engineering		
CIVE 3413	Structural Analysis	3
CIVE 3513	Structural Steel Design	3
CIVE 3523	Reinforced Concrete Design	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 4043	Senior Design	3

CIVE 4273	Construction Engineering and Project Management	3
CIVE 4833	Unit Operations in Environmental Engineering	3
Industrial Engineeri		
IEM 3503	Engineering Economic Analysis	3
Hours Subtotal		48
Electives		
Select 9 hours of th	he 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 4103	Construction Simulation	
CIVE 4113	Construction Business Management	
CIVE 4123	The Legal & Regulatory Environment of	
	Civil Engineering	
CIVE 4133	Construction Contracts and Specifications	
CIVE 4153	Contract Administration	
CIVE 4163	Construction Equipment Management	
CIVE 4183	Construction Estimating	
CIVE 4193	BIM for Construction	
CIVE 4243	Use and Design of Geosynthetics	
CIVE 4283	Numerical Methods in Geotechnical Engineering	
CIVE 4293	Design and Analysis of Earth Retaining Structures	
CIVE 4303	Systems Analysis for Civil Engineers	
CIVE 4313	Highway Traffic Operations	
CIVE 4323	Civil Infrastructure Systems	
CIVE 4343	Urban Transportation Planning	
CIVE 4363	Design and Planning of Airports	
CIVE 4373	Design of Traffic Control Systems	
CIVE 4383	Geometric Design of Highways	
CIVE 4403	Advanced Strength of Materials	
CIVE 4413	Classical and Matrix Methods of Structural Analysis	
CIVE 4513	Advanced Reinforced Concrete Design	
CIVE 4523	Advanced Steel Structure Design	
CIVE 4533	Prestressed Concrete	
CIVE 4563	Structural Dynamics	
CIVE 4573	Timber Design	
CIVE 4653	Asphalt Materials and Mix Design	
CIVE 4673	Concrete Materials and Mix Design	
CIVE 4693	Pavement Design and Analysis	
CIVE 4723	Foundation Engineering	
CIVE 4733	Soil Mechanics	
CIVE 4773	Soil-Structure Interaction	
CIVE 4743	Project Engineering and Management	
CIVE 4753	Engineering Soil Stabilization	
CIVE 4873	Air Pollution Control Engineering	

CIVE 4863	Advanced Unit Operations in Environmental Engineering	
CIVE 4913	Groundwater Hydrology	
CIVE 4923	Environ Risk Assessment	
CIVE 4933	Water Treatment	
CIVE 4943	Risk and Failure Analysis of Dams	
CIVE 4983	Residuals & Solid Waste Management	
CIVE 4963	Open Channel Flow	
CIVE 4973	Concrete Durability	
ENGR 4043 or ENG electives.	R 4060 may be used as one of the CIVE	
Hours Subtotal		9
Total Hours		128

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

## **Other Requirements** 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 4043 Senior 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 2031.