

CIVIL ENGINEERING

NATIONALLY RECOGNIZED FACULTY AND TOP STUDENTS

2019-2020

What can you do as a Civil Engineer?

Civil engineers design, construct and maintain the infrastructure of our modern society, including bridges and roads, drinking water systems, airports and mass transit systems. They provide engineered solutions that prevent landslides along roadways and regulate traffic flow at a busy intersection, to name only a few.

Think of a civil engineer as you leisurely cycle on a bike path or drive your car on a high mountain road, take a shower or flush a toilet, recycle your newspapers or admire a new building under construction. All public infrastructure you interact with on a daily basis required the design skills and professional knowledge of civil engineers.

Civil engineers trained at the University of Idaho can be found throughout the world. They work in engineering consulting firms, for state and federal agencies, and for cities and towns. Civil engineers protect the health and welfare of people by designing, building and maintaining the infrastructure upon which we all depend.

If you like to solve technical problems, want a challenging and rewarding career, and aspire to making a real difference in the world, civil engineering might be the right degree for you!



Undergraduate Program

The B.S. degree program in Civil Engineering at the University of Idaho emphasizes engineering fundamentals so that our graduates are prepared to solve a variety of complex challenges in the work environment. Students are exposed early and often to design concepts as well as to the practical side of tackling engineering problems.

Beginning courses for CE majors include basic sciences, mathematics and engineering as required of most students in the College of Engineering.

The undergraduate program at UI trains civil engineers in several sub-specialities of civil engineering, including environmental engineering, structural engineering, transportation, pavements and construction materials, geotechnical engineering, hydraulics, and water resources engineering.

University of Idaho
College of Engineering

Department of Civil and Environmental Engineering
208.885.6782 or 88-88-UIDAHO ext. 6782
cee@uidaho.edu

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Academic Plan for 2019/20

FRESHMAN - FALL			FRESHMAN - SPRING		
MATH 170	Analytic Geometry & Calculus I	4	MATH 175	Analytic Geometry & Calculus II	4
ENGL 102	College Writing and Rhetoric	3	ENGR 210	Engineering Statics	3
CE 115 ^a	Introduction to Civil Engineering	1	ISEM 101	Integrated Seminar	3
ENGR 105	Engineering Graphics	2	GEOL 111	Physical Geology for Science Majors	3
PHYS 211	Engineering Physics I	3	GEOL 111L	Physical Geology for Science Majors Lab	1
PHYS 211L	Laboratory Physics I	1			
	Total Credits	14		Total Credits	14
SOPHOMORE - FALL			SOPHOMORE - SPRING		
MATH 275	Analytic Geometry & Calculus III	3	MATH 310	Ordinary Differential Equations	3
H/SS Elective	Humanities/Social Science Elective	3	ENGR 335	Fluid Mechanics	3
ENGR 220	Engineering Dynamics	3	ENGR 350	Mechanics of Materials	3
CE 211 ^a	Engineering Surveying	3	CE 215 ^b	CE Analysis & Design	3
CHEM 111	Principles of Chemistry I	3	STAT 301	Probability & Statistics	3
CHEM 111L	Principles of Chemistry I Laboratory	1	ISEM 301	Great Issues Seminar	1
	Total Credits	16		Total Credits	16
JUNIOR - FALL			JUNIOR - SPRING		
ENGL 317	Technical Writing	3	ECON 201/202	Economics course	3
CE 322	Hydraulics	3	CE 325 ^b	Fundamentals of Hydrologic Engineering	3
CE 330 ^a	Fund of Environmental Engineering	3	CE 360 ^b	Fundamentals of Geotechnical Engineering	4
CE 342 ^a	Theory of Structures	3	CE 372 ^b	Fund of Transportation Engineering	3
CE 357 ^a	Properties of Construction Materials	4	CE Elective	Civil Engineering Elective	3
	Total Credits	16		Total Credits	16
SENIOR - FALL			SENIOR - SPRING		
PHIL 103	Ethics	3	CE 494 ^b	Senior Design Project	3
S/M Elective	Science/Math Elective	3	CE Elective	Civil Engineering Elective	3
ENGR 360 ^a	Engineering Economy	2	CE Elective	Civil Engineering Elective	3
CE 491 ^a	CE Professional Seminar	1	CE Elective	Civil Engineering Elective	3
CE Elective	Civil Engineering Elective	3	H/SS Elective	Humanities/Social Science Elective	3
CE Elective	Civil Engineering Elective	3			
	Total Credits	15		Total Credits	15

NOTE: This plan is provided as an example only. A student's specific plan may vary and is designed in consultation with a faculty advisor.

^a Offered Fall only

^b Offered Spring only

A minimum grade of "C" must be earned in all engineering, mathematics, and science courses used to satisfy the curriculum. See course catalog for all degree requirements and additional information.

A "C" or better is required in all Math, Science and Engineering courses used to fulfill degree requirements. Students majoring in civil engineering may accumulate no more than 14 credit hours of D or F in math, science or engineering courses. Included in this number are multiple repeats of a single class or single repeats of multiple classes, as well as courses transferred from other institutions. **Students who exceed 14 credits of D or F will be permanently disqualified from pursuing the B.S. degree in Civil Engineering at the University of Idaho.**