

Bachelor of Science in CIVIL ENGINEERING

2020-2021 Academic Catalog

Total Credits: 127-129

<http://boisestate.edu/coen-ce/>

UPDATED: March 2020

FIRST YEAR	FALL Semester			SPRING Semester			FIRST YEAR
	MATH 170 (FM)	Calculus I: Concepts and Applications	4	MATH 175	Calculus II: Concepts and Applications	4	
CMGT 120	Introduction to Construction Management	3	PHYS 211 (FN)	Physics I with Calculus	4		
UF 100	Foundations of Intellectual Life	3	PHYS 211L (FN)	Physics I with Calculus Lab	1		
ENGL 101 (FW)	Introduction to College Writing	3	ENGL 102 (FW)	Introduction to College Writing and Research	3		
ENGR 180	Communication in Design Thinking	3	CE 286	Introduction to AutoCAD for Civil Engineers	2		
			CE 280	Civil Engineering Case Studies	2		
SEMESTER TOTAL			16	SEMESTER TOTAL			16

SECOND YEAR	FALL Semester			SPRING Semester			SECOND YEAR
	CHEM 111 (FN)	General Chemistry I	3	CHEM 112	General Chemistry II	3	
CHEM 111L (FN)	General Chemistry I Laboratory	1	CHEM 112L	General Chemistry II Laboratory	1		
MATH 275	Multivariable and Vector Calculus	4	MATH 333	Differential Equations with Matrix Theory	4		
ENGR 210	Engineering Statics	3	CE 350	Mechanics of Materials	3		
MATH 360 or MATH 361	Engineering Statistics or Probability and Statistics I	3	FS	Foundations of Social Sciences	3		
CMGT 210	Construction Surveying and Layout	2	UF 200	Foundations of Ethics and Diversity	3		
CMGT 211	Construction Surveying and Layout Lab	1					
SEMESTER TOTAL			17	SEMESTER TOTAL			14

ADMISSION TO UPPER DIVISION REQUIREMENTS

The following courses must be completed in order to apply for *Admission to Upper Division* :

CE 280, CHEM 112, CE or ME 350, MATH 275, MATH 333, and MATH 360 or MATH 361

Check our website for minimum GPA required in these courses and other requirements to be successfully admitted.

THIRD YEAR	FALL Semester			SPRING Semester			THIRD YEAR
	CE 320	Principles of Environmental Engineering	3	CE 370	Transportation Engineering Fundamentals	3	
CE 321	Principles of Environmental Engineering Lab	1	CE 330	Fluid Mechanics	3		
CE 352	Structures I	3	FC	Foundations of Oral Communication	3		
CE 340	Engineering Properties of Construction Materials	3	CE 360	Engineering Properties of Soils	3		
CE 341	Construction Materials Lab	1	CE 361	Engineering Properties of Soils Lab	1		
ENGR 220	Engineering Dynamics	3	ENGR 240	Electrical and Electronic Circuits	3		
CE 284	Civil Engineering Computational Methods or	2					
ENGR 205	Technical Communications for Civil Engineers	1					
SEMESTER TOTAL			17	SEMESTER TOTAL			16

FOURTH YEAR	FALL Semester			SPRING Semester			FOURTH YEAR
	CE 481	Senior Design Project I	1	FH	Foundations of Humanities	3-4	
FA	Foundations of Art	3	CE-TE	CE Technical Elective	3		
FS	Foundations of Social Sciences	3	TechE	Technical Elective	3		
CE-DE	CE Design Elective	3	CE 483 (FF)	Senior Design Project II	3		
CE-TE	CE Technical Elective	3					
SciE	Science Elective	3-4					
SEMESTER TOTAL			16-17	SEMESTER TOTAL			12-13

Offered **FALL** Semester Only

Offered **SPRING** Semester Only

UNIVERSITY FOUNDATIONS REQUIREMENTS

FA: Foundations of Arts

FC: Foundations of Oral Communication

FF: Finishing Foundations

FH: Foundations of Humanities

FM: Foundations of Mathematics

FN: Foundations of Natural, Physical, and Applied Sciences

FS: Foundations of Social Sciences

FW: Foundations of Writing

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