

# Bachelor of Science in CIVIL ENGINEERING

## 2022-2023 Academic Catalog

Total Credits: 124

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

UPDATED: March 2022

FIRST YEAR	FALL Semester			SPRING Semester			FIRST YEAR
	CE-EC 100	CE Engagement Course - Selected Topics	1	CE-EC 100	CE Engagement Course - Selected Topics	1	
	CE 286	Introduction to AutoCAD for Civil Engineers	2	MATH 175	Calculus II: Concepts and Applications	4	
	ENGL 101 (FW)	Introduction to College Writing	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	
	MATH 170 (FM)	Calculus I: Concepts and Applications	4	ENGL 102 (FW)	Introduction to College Writing and Research	3	
	CE 280	Civil Engineering Case Studies***	2	CMGT 120	Introduction to Construction Management	3	
	CE 281	Civil Engineering Laboratory***	1				
<b>SEMESTER TOTAL</b>			<b>16</b>	<b>SEMESTER TOTAL</b>			<b>16</b>

SECOND YEAR	FALL Semester			SPRING Semester			SECOND YEAR
	CE 284	Civil Engineering Computational Methods	2	CE-EC 100	CE Engagement Course - Selected Topics	1	
	CHEM 111 (FN)	General Chemistry I	3	CE 220	Coupled Environmental Processes**	2	
	CHEM 111L (FN)	General Chemistry I Laboratory	1	CE 330	Fluid Mechanics**	3	
	ENGR 210	Engineering Statics	3	CE 270	Geomatics and Geospatial Data**	2	
	MATH 360 or 361	Engineering Statistics or Probability and Statistics I***	3	CE 350	Mechanics of Materials***	3	
	MATH 333	Differential Equations with Matrix Theory***	4	MATH 275	Multivariable and Vector Calculus***	4	
	<b>SEMESTER TOTAL</b>			<b>16</b>	<b>SEMESTER TOTAL</b>		

### \*\*\*ADMISSION TO UPPER DIVISION REQUIREMENTS

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

**CE 280, CE 220, CE 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 360	Engineering Properties of Soils**	3	
	CE 323	Environmental and Fluids Laboratory*	1	CE 346	Civil Engineering Materials Laboratory**	1	
	CE 332	Hydrology and Hydraulic Systems*	3	CE 340	Engineering Properties of Construction Materials**	3	
	CE 370	Transportation Engineering Fundamentals*	3	CE 352	Structures I**	3	
	ENGR 205	Technical Communications for Civil Engineers	1	ENGR 360	Engineering Economy**	3	
	UF 200	Foundations of Ethics and Diversity	3	FH 360	Foundations of Humanities	3	
	<b>SEMESTER TOTAL</b>			<b>14</b>	<b>SEMESTER TOTAL</b>		

FOURTH YEAR	FALL Semester			SPRING Semester			FOURTH YEAR
	CE 481	Senior Design Project I	1	CE 483 (FF)	Senior Design Project II	3	
	Tech Electives	CE Design Elective (Approved by Faculty Advisor)	3	Tech Electives	Tech Electives (Approved by Faculty Advisor)	6	
	Tech Electives	Tech I Electives (Approved by Faculty Advisor)	3	FS	Foundations of Social Sciences	3	
	FS	Foundations of Social Sciences	3	FA	Foundations of Art	3	
	FC	Foundations of Oral Communication	3				
	SciE	Science Elective	3				
	<b>SEMESTER TOTAL</b>			<b>16</b>	<b>SEMESTER TOTAL</b>		

\*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