

Bachelor of Science in CIVIL ENGINEERING

2018-2019 Academic Catalog

Total Credits: 124 -128

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

UPDATED: March 2018

FIRST YEAR	FALL SEMESTER			SPRING SEMESTER			FIRST YEAR
	Course	Description	Credits	Course	Description	Credits	
	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 120 or ENGR 130	Introduction to Engineering or Introduction to Engineering Applications	3/4	CE 286	Introduction to AutoCAD for Civil Engineers	2	
				CE 280	Civil Engineering Case Studies	2	
	SEMESTER TOTAL		16-17	SEMESTER TOTAL		16	

SECOND YEAR	FALL SEMESTER			SPRING SEMESTER			SECOND YEAR
	Course	Description	Credits	Course	Description	Credits	
	CHEM 111 (FN)	General Chemistry I	3	CHEM 112	General Chemistry II	3	
	CHEM 111L	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 or ME 350	Mechanics of Materials or Engineering Mechanics of Materials	3	
	MATH 360 or MATH 361	Engineering Statistics or Probability and Statistics I	3	UF 200	Foundations of Ethics and Diversity	3	
	CE 210	Engineering Surveying	2	ENGL 202 (FS)	Introduction to Technical Communication	3	
	CE 211	Engineering Surveying Lab	1				
	SEMESTER TOTAL		17	SEMESTER TOTAL		17	

Admission to Upper Division Requirement

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
	Course	Description	Credits	Course	Description	Credits	
	CE 320	Principles of Environmental Engineering	3	CE 370	Transportation Engineering Fundamentals	3	
	CE 321 (FC)	Principles of Environmental Engineering Lab	1	CE or ME 330	Fluid Mechanics	3	
	CE 352	Structures I	3	CE or ME 331	Fluid Mechanics Lab	1	
	CE 340	Engineering Properties of Construction Materials	3	FA	Foundations of Arts	3	
	CE 341 (FC)	Construction Materials Lab	1	CE 360	Engineering Properties of Soils	3	
	ENGR 220	Engineering Dynamics	3	CE 361	Engineering Properties of Soils Lab	1	
	CE 284 or CS 117	Civil Engineering Computational Methods or C++ for Engineers	2/3	ME 302 or ENGR 240	Thermodynamics I or Electrical and Electronic Circuits	3	
	SEMESTER TOTAL		16-17	SEMESTER TOTAL		17	

FOURTH YEAR	FALL SEMESTER			SPRING SEMESTER			FOURTH YEAR
	Course	Description	Credits	Course	Description	Credits	
	CE 481 (FC)	Senior Design Project I	1	CE-TE	CE Technical Elective	3	
	FS	Foundations of Social Sciences	3	TechE	Technical Elective	3	
	SciE	Science Elective	3-4	FH	Foundations of Humanities	3-4	
	CE-DE	CE Design Elective	3	CE 483 (FF)	Senior Design Project II	3	
	CE-TE	CE Technical Elective	3				
	SEMESTER TOTAL		13-14	SEMESTER TOTAL		12-13	

Offered **FALL** only

Offered **SPRING** only

UNIVERSITY FOUNDATIONS REQUIREMENTS

FA: Foundations of Arts

FC: Foundations of Oral Communication

FF: Finishing Foundations

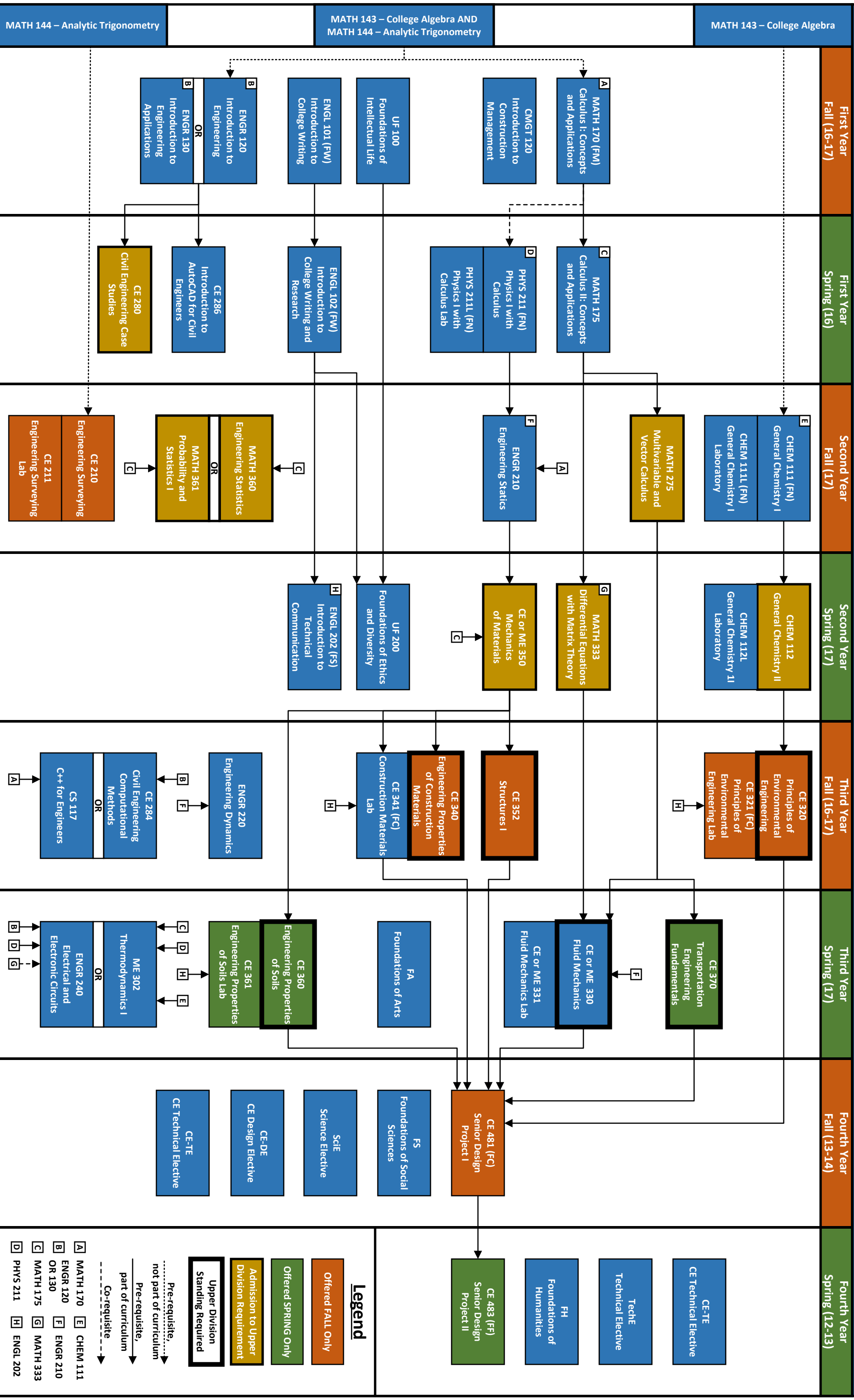
FH: Foundations of Humanities

FM: Foundations of Mathematics

FN: Foundations of Natural, Physical, and Applied Sciences

FS: Foundations of Social Sciences

FW: Foundations of Writing



Legend

- Offered FALL Only
- Offered SPRING Only
- Admission to Upper Division Requirement
- Upper Division Standing Required

- Pre-requisite:** (solid arrow)
- not part of curriculum** (dashed arrow)
- Pre-requisite, not part of curriculum** (dotted arrow)
- Co-requisite** (dashed arrow with double line)

- A** MATH 170 **E** CHEM 111
- B** ENGR 120 **F** ENGR 210
- OR 130
- C** MATH 175 **G** MATH 333
- D** PHYS 211 **H** ENGL 202