

Department of Civil, Construction, and Environmental Engineering Construction (BSConE)

FRESHMAN YEAR

SOPHOMORE YEAR

Fall 15 Hours	Spring 15 Hours	Fall 16 Hours	Spring 16 Hours
CE 121* Intro to CCEE (1)	ENGR 171 Engineering Graphics (1)	ENGR 171 MATH 115	CE 260 Surveying (2)
MATH 125 Calculus I MA (4)	MATH 126 Calculus II MA (4)	ENGR 103 MATH 125 PH 105	AEM 201 Statics (3)
ENGR 103 Engineering Foundations (3)	PH 105 Gen. Physics w/ Calculus I N (4)	MATH 126	MATH 227 Calculus III MA (4)
EN 101 English Comp I FC (3)	EN 101	ENGR 103	GES 255 Engineering Statistics (3)
CH 101 Chemistry I N (4)	HI/SB ¹ Elective HI/SB (3)	MATH 126	Approved Natural Science Elective N (4)
PH 105 MATH 126	MATH 227 GES 255 AEM 250 AEM 264 ME 216	MATH 238 AEM 311	AEM 201 Civil & Const Engr Materials (3)
AEM 201 ENGR 171	PH 106 AEM 201	MATH 238 AEM 311	AEM 250 Mechanics of Materials (3)
EN 102	EN 102 English Comp II FC (3)	CE 350 CE 420 CE 464	AEM 264 Dynamics (3)
CH 102 CE 320	PH 106 Physics 2 w/Cal2N (4)	ECE 320	MATH 238 Differential Equations MA (3)
See Nat. Science Notes	ECE 320	ECE 320	MATH 227

Approved Natural Science (N) Electives		
BSCivE	BSConE & BSArchE	BSEnvE
Required: CH 101, PH 105, and either CH 102 or PH 106 Approved Electives: BSC 114/115 Principles of Biology CH 102 Gen Chemistry II GEO 101 Dynamic Earth GEO 102 Earth Through Time GEO 104 Hazardous Earth GEO 105 Sustainable Earth GY 101 Atmospheric Processes GY 102 Earth Surface Processes Note: Natural Science Elective cannot be chemistry (CH) or physics (PH)	Required: CH 101, PH 105, and PH 106 Approved Electives: BSC 114/115 Principles of Biology CH 102 Gen Chemistry II GEO 101 Dynamic Earth GEO 102 Earth Through Time GEO 104 Hazardous Earth GEO 105 Sustainable Earth GY 101 Atmospheric Processes GY 102 Earth Surface Processes	Required: CH 101, CH 102, PH 105, and BSC 114/115 Approved Electives: GEO 101 Dynamic Earth GEO 102 Earth Through Time GEO 104 Hazardous Earth GEO 105 Sustainable Earth GY 101 Atmospheric Processes GY 102 Earth Surface Processes Note: Natural Science Elective must be an "Earth" science

KEY

Prerequisite (must be taken before) C-req'd	Course ### Title (Credits)	Downward Dependencies (course(s) for which this course is a prerequisite)
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Advising Notes	
*CE 121 is recommended, but can be satisfied by ENGR 111 or another engineering introduction course. HI/SB = History & Social and Behavioral Science HU/L/FA = Humanities/Literature/Fine Arts • CE 220 and EC 110 are recommended as SB electives • Foreign language is recommended as HU electives	FC = Freshman Composition MA = Mathematics C = Computer Science W = Writing

Revision 2.1 April 17 2017

Department of Civil, Construction, and Environmental Engineering: Bachelor of Science in Construction Engineering (BSConE)

JUNIOR YEAR

Fall
16 Hours

CE 262 AEM 250	CE 331 Structural Engr (3)	CE 403 CE 462
CE 262 AEM 250	CE 340 Geotechnica l Engr W (4)	CE 401 CE 403 CE 461
CE 262	CE 366 Construction Engr (3)	CE 403 CE 414 CE 417 CE 418 CE 419 CE 461 CE 462 CE 463 CE 464 CE 467 CE 468
	Engineering Systems Elective ² (3)	
	HI/SB ¹ Elective HI/SB (3)	

Spring
15 Hours

CE 366	CE 418 Engineering Management (3) <i>Spring Only</i>	
CE 331 CE 366	CE 462 Vertical Construction (3) <i>Spring Only</i>	
CE 366	CE 463 Construction Cost Estimating (3) <i>Spring Only</i>	
	Engineering Systems Elective ² (3)	
	HI/SB ¹ Elective HI/SB (3)	

SENIOR YEAR

Fall
15 Hours

	Senior Plan of Study Elective* (3)	
CE 340 CE 366	CE 461 Horizontal Construction (3) <i>Fall Only</i>	
CE 366	CE 468 Construction Scheduling (3) <i>Fall Only</i>	
	COM 123 Public Speaking HU (3)	
	HU/L/FA ¹ Elective HU/L/FA (3)	

Spring
16 Hours

See List Below	CE 401 or CE 403 Capstone Project C, W (4)	
See List Below	Senior Plan of Study Elective* (3)	
	Senior Plan of Study Elective* (3)	
CE 366 GES 255	CE 464 Safety Engineering (3) <i>Spring Only</i>	
	HU/L/FA ¹ Elective HU/L/FA (3)	

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Advising Notes-Plan of Study	Senior Design Prerequisite and Corequisite Requirements		Advising Notes
<ul style="list-style-type: none"> *Please see the student guide to Senior Plan of Study Electives for a full list of electives and requirements. All students must submit a Graduation Portfolio. Please see the student guide for further information. All students are strongly encouraged to prepare for and take the Fundamentals of Engineering (FE) Exam during their senior year. 	CE 401 Capstone Project - Site Design <ul style="list-style-type: none"> CE 320, CE 340, CE 350, or CE 378 (C- or better required) Six (6) credit hours of any 400-level CE courses (C- or better required) Two of the following (may be taken concurrently with CE 401): CE 424, CE 425, CE 442, CE 451, CE 459, CE 475 	CE 403 Capstone Project - Building Design <ul style="list-style-type: none"> CE 331, CE 340, and CE 366 (C- or better required) Six (6) credit hours of any 400-level CE courses (C- or better required) Two of the following (may be taken concurrently with CE 403): CE 433, CE 434, CE 437, CE 438, CE 439, CE 444, CE 462 	¹ HI/SB = History & Social and Behavioral Science ¹ HU/L/FA = Humanities/Literature/Fine Arts <ul style="list-style-type: none"> CE 220 and EC 110 are recommended as SB electives Foreign language is recommended as HU electives C = Computer Science W = Writing ² Engineering Systems Electives (take two of the three): AEM 311, ECE 320, ME 216