

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

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 103	ENGR 171 MATH 115 CE 260 Surveying (2) CE 350	AEM 201 CE 262 Civil & Const Engr Materials (3) CE 331 CE 340 CE 366
MATH 125 Calculus I MA (4)	MATH 125 MATH 126 Calculus II MA (4)	ENGR 103 MATH 125 PH 105 AEM 201 Statics (3)	AEM 201 MATH 126 AEM 250 Mechanics of Materials (3) CE 331 CE 340
ENGR 103 Engineering Foundations (3)	MATH 125 PH 105 Gen. Physics w/ Calculus I N (4)	MATH 126 MATH 227 Calculus III MA (4)	AEM 201 MATH 126 AEM 264 Dynamics (3) CE 378
EN 101 English Comp I FC (3)	EN 101 EN 102 English Comp II FC (3)	ENGR 103 GES 255 Engineering Statistics (3)	MATH 126 MATH 238 Differential Equations MA (3) ECE 320
CH 101 Chemistry I N (4)	HI/SB ¹ Elective HI/SB (3)	Approved Natural Science Elective N (4)	CH 101 CH 102 Chemistry II N (4) or PH 105 PH 106 Physics2 w/Cal2 N (4)

Approved Natural Science (N) Electives		
BSCivE	BSConE & BSArchE	BSEnVE
<p>Required: CH 101, PH 105, and either CH 102 or PH 106</p> <p>Approved Electives: BSC 114/115 Principles of Biology 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)</p>	<p>Required: CH 101, PH 105, and PH 106</p> <p>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</p>	<p>Required: CH 101, CH 102, PH 105, and BSC 114/115</p> <p>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</p>

KEY		
Prerequisite (must be taken before) C-req'd)	Course ### Title (Credits)	Downward Dependencies (course(s) for which this course is a prerequisite)
Prerequisite (may be taken concurrently)		

Revision 2.1 April 17 2017

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

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JUNIOR YEAR

SENIOR YEAR

Fall 16 Hours			Spring 15 Hours			Fall 15 Hours			Spring 16 Hours		
CE 262 AEM 250	CE 331 Structural Engr (3)	CE 403	CH 101 AEM 311	CE 320 Environmental Engr (3)	CE 401		Senior Plan of Study Elective* (3)		See List Below	CE 401 or CE 403 Capstone Project C, W (4)	
CE 262 AEM 250	CE 340 Geotechnical Engr (4)	CE 401 CE 403	CE 262	CE 366 Construction Engr (3)	CE 403		Senior Plan of Study Elective* (3)			Senior Plan of Study Elective* (3)	
CE 260 GES 255	CE 350 Transportation Engr (3)	CE 401	AEM 264 AEM 311	CE 378 Water Resources (3)	CE 401		Senior Plan of Study Elective* (3)			Senior Plan of Study Elective* (3)	
MATH 227 AEM 201	AEM 311 Fluid Mechanics (3)	CE 378		HI/SB ¹ Elective HI/SB (3)			COM 123 Public Speaking HU (3)			Senior Plan of Study Elective* (3)	
	HI/SB ¹ Elective HI/SB (3)		PH 106 MATH 238	ECE 320 Electr. Engr (3) OR			HU/L/FA ¹ Elective HU/L/FA (3)			HU/L/FA ¹ Elective HU/L/FA (3)	
			MATH 126	ME 216 Thermal Engr (3) <i>Spring Only</i>							

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Advising Notes-Plan of Study	Senior Design Prerequisite and Corequisite Requirements		Advising Notes
<ul style="list-style-type: none"> • Must take 2 "D" and no more than 2 "P" electives 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	CE 403 Capstone Project - Building Design	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
	<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 See Senior Elective Guide for Second BSCE Path to CE 401	<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 	