

## Department of Civil, Construction, and Environmental Engineering Architectural (BSArchE)

### 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)  AEM 250  CE 331 CE 340 CE 366
MATH 125 Calculus I MA (4)  PH 105 MATH 126	MATH 125  MATH 126 Calculus II MA (4)  MATH 227 GES 255 AEM 250 AEM 264 ME 216	ENGR 103 MATH 125 PH 105  AEM 201 Statics (3)  AEM 250 AEM 264 AEM 311 CE 262	AEM 201 MATH 126  AEM 250 Mechanics of Materials (3)  CE 331 CE 340
ENGR 103 Engineering Foundations (3)  AEM 201 ENGR 171	MATH 125  PH 105 Gen. Physics w/ Calculus I N (4)  PH 106 AEM 201	MATH 126  MATH 227 Calculus III MA (4)  MATH 238 AEM 311	AEM 201 MATH 126  AEM 264 Dynamics (3)  CE 378
EN 101 English Comp I FC (3)  EN 102	EN 101  EN 102 English Comp II FC (3)	ENGR 103  GES 255 Engineering Statistics (3)  CE 350 CE 420 CE 464	MATH 126  MATH 238 Differential Equations MA (3)  ECE 320
CH 101 Chemistry I N (4)  CH 102 CE 320	HI/SB <sup>1</sup> Elective HI/SB (3)	Approved Natural Science Elective N (4)	PH105  PH 106 Physics 2 w/CalN (4)  See Nat. Science Notes  ECE 320

Approved Natural Science (N) Electives		
BSCivE	BSConE & BSArchE	BSEnvE
<p><b>Required:</b> CH 101, PH 105, and either CH 102 or PH 106</p> <p><b>Approved Electives:</b> 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><b>Required:</b> CH 101, PH 105, and PH 106</p> <p><b>Approved Electives:</b> BSC 114/115 Principles of Biology GEO 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><b>Required:</b> CH 101, CH 102, PH 105, and BSC 114/115</p> <p><b>Approved Electives:</b> 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)
Revision 2.1 April 17 2017		
<b>Advising Notes</b>		
<p><sup>1</sup>HI/SB = History &amp; Social and Behavioral Science <sup>1</sup>HU/L/FA = Humanities/Literature/Fine Arts</p> <ul style="list-style-type: none"> <li>CE 220 and EC 110 are recommended as SB electives</li> <li>Foreign language is recommended as HU electives</li> </ul>		<p>FC = Freshman Composition MA = Mathematics C = Computer Science    <b>W</b> = Writing</p>

## Department of Civil, Construction, and Environmental Engineering: Bachelor of Science in Architectural Engineering (BSArchE)

### JUNIOR YEAR

### SENIOR YEAR

Fall 15 Hours			Spring 16 Hours			Fall 15 Hours			Spring 16 Hours		
CE 262 AEM 250	CE 331 Structural Engr (3)	CE 403 CE 433 CE 434 CE 462	CE 262 AEM 250	CE 340 Geotechnical Engr (4)	CE 401 CE 403		Senior Plan of Study Elective* (3)		See List Below	CE 403 Capstone Bldg Project C, W (4)	
CE 262	CE 366 Construction Engr (3)	CE 403 CE 462	CE 331	CE 434 Steel Design I (3) <i>Spring Only</i>		CE 331	CE 433 Reinforced Concrete I (3) <i>Fall Only</i>		See List Below	Senior Plan of Study Elective* (3)	
MATH 227 AEM 201	AEM 311 Fluid Mechanics (3)	CE 378 ME 407	ECE 320 or ECE 225	ECE 350 Elec Power & Machines (3) <i>Spring Only</i>		ME 216 AEM 311	ME 407 Heating Vent & Air Cond (3) <i>Fall Only</i>			Senior Plan of Study Elective* (3)	
PH 106 MATH 238	ECE 320 Fund of Electrical Engr (3)		MATH 126	ME 216 Thermal Engr Survey (3) <i>Spring Only</i>	ME 407		COM 123 Public Speaking HU (3)		CE 331 CE 366	CE 462 Vertical Construction (3) <i>Spring Only</i>	
	HI/SB <sup>1</sup> Elective HI/SB (3)			HI/SB <sup>1</sup> Elective HI/SB (3)			HU/L/FA <sup>1</sup> Elective HU/L/FA (3)			HU/L/FA <sup>1</sup> Elective HU/L/FA (3)	

Revision 2.1 April 17 2017

*Advising Notes-Plan of Study*	Senior Design Prerequisite and Corequisite Requirements	Advising Notes
<ul style="list-style-type: none"> <li>*Please see the student guide to <b>Senior Plan of Study Electives</b> for a full list of electives and requirements.</li> <li>All students must submit a <b>Graduation Portfolio</b>. Please see the student guide for further information.</li> <li>All students are strongly encouraged to prepare for and take the <b>Fundamentals of Engineering (FE) Exam</b> during their senior year.</li> </ul>	<p style="text-align: center;"><b>CE 403 Capstone Project - Building Design</b></p> <ul style="list-style-type: none"> <li>CE 331, CE 340, and CE 366 (C- or better required)</li> <li>Six (6) credit hours of any 400-level CE courses (C- or better required)</li> <li>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</li> </ul>	<p><sup>1</sup>HI/SB = History &amp; Social and Behavioral Science</p> <p><sup>1</sup>HU/L/FA = Humanities/Literature/Fine Arts</p> <ul style="list-style-type: none"> <li>CE 220 and EC 110 are recommended as SB electives</li> <li>Foreign language is recommended as HU electives</li> </ul> <p>C = Computer Science W = Writing</p>