

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

## FRESHMAN YEAR

## SOPHOMORE YEAR

Fall 15 Hours			Spring 15 Hours			Fall 16 Hours			Spring 16 Hours		
	CE 121* Intro to CCEE (1)		ENGR 103	ENGR 171 Engineering Graphics (1)	CE 260	ENGR 171 MATH 115	CE 260 Surveying (2)	CE 350	AEM 201 AEM 250	CE 262 Civil & Const Engr Materials (3)	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 MATH 126	GES 255 Engineering Statistics (3)	CE 350 CE 420 CE 464	MATH 126 MATH 227	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)		CH 101	CH 102 Chemistry II N (4)	See Nat. Science Notes

### Approved Natural Science (N) Electives

**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	<b>Course ###</b> <b>Title</b> <b>(Credits)</b>	Downward Dependencies (course(s) for which this course is a prerequisite)
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### Advising Notes

<sup>1</sup>HI/SB = History & Social and Behavioral Science

<sup>1</sup>HU/L/FA = Humanities/Literature/Fine Arts

- EC 110 is recommended as SB electives
- Foreign language is recommended as HU electives

FC = Freshman Composition

MA = Mathematics

C = Computer Science

W = Writing

\*ENGR 111 or 121 from any UA Engineering Department will meet requirements of CE 121

**Department of Civil, Construction, and Environmental Engineering:  
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**JUNIOR YEAR**

**SENIOR YEAR**

Fall 16 Hours			Spring 16 Hours			Fall 15 Hours			Spring 16 Hours		
CH 101	CE 320 Environmental Engr (3)	CE 405 CE 420 CE 422 CE 424 CE 425	CE 262 AEM 250	CE 340 Geotechnical Engr W (4)	CE 405		Senior Plan of Study Elective* (3)		See List Below	CE 405 Senior Design Site: Env E (4)	
AEM 311									See List Below		
	BSC 114/115 Principles of Biology N (4)		AEM 264 AEM 311	CE 378 Water Resources Engr (3)	CE 405 CE 420 CE 475		CE 422 Solid/Hazardous Waste (3) <i>Fall Only</i>		CE 320	Senior Plan of Study Elective* (3)	
MATH 227 AEM 201	AEM 311 Fluid Mechanics (3)	CE 378	CE 320 AEM 311	CE 425 Air Pollution (3) <i>Spring Only</i>		CE 320	CE 424 Water/Waste Treatment (3) <i>Fall Only</i>			Senior Plan of Study Elective* (3)	
	COM 123 Public Speaking HU (3)		MATH 126	ME 216/215 Thermal Engr Survey (3) <i>Spring Only</i>		CE 378	CE 475 Hydrology (3)		CE 320 CE 378 GES 255	CE 420 Environmental Measurements (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)	

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*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 are strongly encouraged to prepare for and take the <b>Fundamentals of Engineering (FE) Exam</b>, at the end or immediately following their senior year.</li> </ul>	CE 405 Capstone Design Site: EnvE	<sup>1</sup> HI/SB = History & Social and Behavioral Science <sup>1</sup> HU/L/FA = Humanities/Literature/Fine Arts <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> C = Computer Science W = Writing N = Natural Science
	<ul style="list-style-type: none"> <li>Prerequisites (C- or greater) : CE 320, CE 340, and CE 378 and a tleast one 400 level C.E. course</li> <li>Co-requisites (C- or greater) (may be taken concurrently with CE 405): CE 424, CE 425, and CE 475</li> </ul>	