

# Bachelor of Science in Civil Engineering

Fall 15 Hours			FRESHMAN YEAR			Spring 15 Hours			Fall 16 Hours			SOPHOMORE YEAR			Spring 16 Hours		
	MATH 125 Calculus I MA (4)	MATH 126 PH 105	MATH 125	MATH 126 Calculus II MA (4)	AEM 250 AEM 264 GES 255 MATH 227 MATH 238	MATH 126	MATH 227 Calculus III MA (4)	AEM 311	MATH 126	MATH 238 Differential Equations MA (3)	ECE 320						
	CH 101 Chemistry I N (4)	CH 102 CE 320	MATH 125	PH 105 Physics I w/CAL I N (4)	PH 106 AEM 201		Approved Natural Science N (4)	See Natural Science Notes	CH 101 or PH 105	CH 102 Chemistry II or PH 106 Physics II N (4)	See Natural Science Notes						
	ENGR 103 Engineering Foundations (3)	AEM 201 ENGR 171	ENGR 103	ENGR 171 Large Scale Graphics (1)	CE 260	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						
	CE 121* Intro to CCEE (1)			HI/SB Elective (3)		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						
	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	AEM 201 MATH 126	AEM 264 Dynamics (3)	CE 378						

Approved Natural Science (N)	Advising Notes	
Required: CH 101 or 117, PH 105 or 125, CH 102 or 118 or PH 106 or 126 Natural Science (N) Elective BSC 114/115 or 118, or GEO 101, 102, 104 or 105, OR GY 101, 102, 202 or 207 Cannot be CH or PH	HU/L/FA = Humanities/Literature/Fine Arts • Foreign language is recommended as HU HI/SB = History/Social and Behavioral Science • EC 110 is recommended as SB FC = Freshman Composition W = Writing MA = Mathematics C = Computer Science <b>*ENGR 111 or any engineering major intro course will meet requirements of CE 121.</b>	<ul style="list-style-type: none"> <li>• A grade of C- or higher is required in each course that is a prereq to any course needed to meet degree requirements.</li> <li>• Honors College participants refer to your DegreeWorks for Honors College requirements and course options.</li> <li>• A max of 12 hours of 300/400 level courses can be transferred.</li> <li>• Students are limited to a max of three attempts per course offered by the College, excluding withdrawals.</li> </ul>

KEY		
Prerequisite Course(s)	Course ### Title (Credits)	Downward Depend- encies
Corequisite Course(s)		

This is a coursework planning tool. The UA Undergraduate Catalog contains the official listing of academic information.

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Fall 16 Hours			JUNIOR YEAR			Spring 15 Hours			Fall 15 Hours			SENIOR YEAR			Spring 16 Hours		
AEM 201 MATH 227	AEM 311 Fluid Mechanics (3)	CE 378	CH 101  AEM 311	CE 320 Intro to Environmental Engineering (3)	CE 401		Senior Plan of Study Elective (3)			Senior Plan of Study Elective (3)			Senior Plan of Study Elective (3)				
AEM 250 CE 262	CE 331 Intro to Structural Engineering (3)	CE 401	CE 262	CE 366 Intro to Construction Engineering (3)	CE 401		Senior Plan of Study Elective (3)			Senior Plan of Study Elective (3)			Senior Plan of Study Elective (3)				
AEM 250 CE 262	CE 340 Geotechnical Engineering W (4)	CE 401	AEM 264 AEM 311	CE 378 Water Resources Engineering (3)	CE 401		Capstone Design Elective (3)			Capstone Design Elective (3)			Capstone Design Elective (3)				
CE 260 GES 255	CE 350 Intro to Transportation Engineering (3)	CE 401		ECE 320 Fund of Elec Engr or ME 215 Thermodynamics or ME 216 Thermal Engr Survey (3)			COM 123 HU/L/FA (3)			CE 401 or CE 403 Capstone Design W (4)			See Capstone Design Civil Engineering Requirements				
	HI/SB Elective (3)			HI/SB Elective (3)			HU/L/FA Elective (3)			HU/L/FA Elective (3)			HU/L/FA Elective (3)				

**Senior Plan of Study and Capstone Design** electives must be CE courses numbered 400 or above or other approved electives. At least six hours of the electives must be Capstone Design designated (CD) courses. Not more than two electives may be professional practice (P), including any non-civil engineering courses. See department list for electives, including Capstone Design designated (CD), professional practice (P), and general technical (G) electives.

**Capstone Design Civil Engineering Requirements**  
**CE 401 Capstone Design Site: CivE**  
 Prerequisites: CE 320, CE 331, CE 340, CE 350, CE 366 and CE 378  
 Prerequisites with concurrency: 1 of CE (424, 451, 458, 461, 475) & 1 of CE (424, 425, 433, 434, 451, 458, 459, 461, 462, 475)

**CE 403 Capstone Design Building: CivE**  
 Prerequisites: CE 331, CE 340 and 3 of CE (320, 350, 366, and 378) and 1 of CE (433 or 434)  
 Prerequisites with concurrency: 1 of CE (424, 425, 433, 434, 451, 458, 459, 461, 462, 475)

- Capstone Design CE 401 and CE 403 must be taken at UA and cannot be transferred from another institution