

Bachelor of Science in Construction Engineering

FRESHMAN YEAR			SOPHOMORE YEAR							
Fall 15 Hours	Spring 15 Hours	Fall 16 Hours	Spring 16 Hours	Fall 16 Hours	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)		MATH 125	PH 105 Physics I w/CAL I N (4)	PH 106 AEM 201		Approved Natural Science N (4)	See Natural Science Notes	PH 105	PH 106 Physics II N (4)	See Natural Science Notes
ENGR 103 Engineering Foundations (3)	AEM 201 ENGR 171		ENGR 171 Large Scale Graphics (1)	CE 260	ENGR 171 MATH 115	CE 260 Surveying (2)		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	GES 255 Engineering Statistics (3)		AEM 201 MATH 126	AEM 264 Dynamics (3)	

Natural Science (N)	Advising Notes	
Required: CH 101 or 117, PH 105 or 125, PH 106 or 126 Natural Science (N) Elective BSC 114/115 or 118, or CH 102 GEO 101, 102, 104 or 105, OR GY 101, 102, 202 or 207	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 *ENGR 111 or any engineering major intro course will meet requirements of CE 121.	<ul style="list-style-type: none"> • A grade of C- or higher is required in each course that is a prereq to any course needed to meet degree requirements. • Honors College participants refer to your DegreeWorks for Honors College requirements and course options. • A max of 12 hours of 300/400 level courses can be transferred. • Students are limited to a max of three attempts per course offered by the College, excluding withdrawals.

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 250 CE 262	CE 331 Intro to Structural Engineering (3)	CE 402 CE 404	CE 366	CE 418 Engineering Management Spring Only (3)			CE 433 Reinf Concrete Struct I or CE 434 Struct Steel Design I (3)			GES 255 CE 366	CE 464 Safety Engineering Spring Only (3)						
AEM 250 CE 262	CE 340 Geotechnical Engineering W (4)	CE 402 CE 404	CE 366	CE 462 Vertical Construction Methods Spring Only (3)	CE 404	CE 366	CE 461 Horizontal Construction Methods Fall Only (3)	CE 402			Construction Project Management Elective (3)						
CE 262	CE 366 Intro to Construction Engineering (3)	CE 402 CE 404	CE 366	CE 463 Construction Cost Estimating Spring Only (3)		CE 366	CE 468 Construction Scheduling Fall Only (3)	CE 402 CE 404			Construction Engineering Elective (3)						
	Engineering Systems Elective (3)	See Engineering Systems Elective Notes		Engineering Systems Elective (3)	See Engineering Systems Elective Notes		COM 123 HU/L/FA (3)				CE 402 or CE 404 Capstone Design W (4)	See Capstone Design Construction Engineering Requirements					
	HI/SB Elective (3)			HI/SB Elective (3)			HU/L/FA Elective (3)				HU/L/FA Elective (3)						

Engineering Systems Elective Choose two from: ECE 320 Fundamentals of Electrical Engineering; ME 215 Thermodynamics I or ME 216 Thermal Engineering Survey; and AEM 311 Fluid Mechanics.	Senior Plan of Study and Capstone Design electives must include CE 433 or CE 434 for Capstone Design (CD); one course in project management (PM); and one in Construction Engineering, which can be a general technical (GT), design (D) or project management (PM) courses. See the department for a list of approved electives.	Capstone Design Construction Engineering Requirements CE 402 Capstone Design Site: ConE Prerequisites (C- or greater): CE 340, CE 366 and CE 331 Prerequisites with concurrency: CE 461, 468 + 1 of CE (433 or 434) CE 404 Capstone Design Building: ConE Prerequisites (C- or greater): CE 340, CE 366 and CE 331 +1 of (433 or 434) Prerequisites with concurrency: CE 462 and CE 468 • Capstone Design CE 402 & CE 404 must be taken at UA. No transfer credit accepted.
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