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

FRESHMAN YEAR

Fall
15 Hours

	CE 121* Intro to CCEE (1)	
	MATH 125 Calculus I MA (4)	PH 105 MATH 126
	ENGR 103 Engineering Foundations (3)	AEM 201 ENGR 171
	EN 101 English Comp I FC (3)	EN 102
	CH 101 Chemistry I N (4)	CH 102 CE 320

Spring
15 Hours

ENGR 103	ENGR 171 Engineering Graphics (1)	CE 260
MATH 125	MATH 126 Calculus II MA (4)	MATH 227 GES 255 AEM 250 AEM 264 ME 216
MATH 125	PH 105 Gen. Physics w/ Calculus I N (4)	PH 106 AEM 201
EN 101	EN 102 English Comp II FC (3)	
	HI/SB[1] Elective HI/SB (3)	

SOPHOMORE YEAR

Fall
16 Hours

ENGR 171 MATH 115	CE 260 Surveying (2)	CE 350
ENGR 103 MATH 125 PH 105	AEM 201 Statics (3)	AEM 250 AEM 264 AEM 311 CE 262
MATH 126	MATH 227 Calculus III MA (4)	MATH 238 AEM 311
ENGR 103 MATH 126	GES 255 Engineering Statistics (3)	CE 350 CE 420 CE 464
	Approved Natural Science Elective N (4)	

Spring
16 Hours

AEM 201 AEM 250	CE 262 Civil & Const Engr Materials (3)	CE 331 CE 340 CE 366
AEM 201 MATH 126	AEM 250 Mechanics of Materials (3)	CE 331 CE 340
AEM 201 MATH 126	AEM 264 Dynamics (3)	CE 378
MATH 126 MATH 227	MATH 238 Differential Equations MA (3)	ECE 320
PH105	PH 106 Physics 2 w/CalN (4)	See Nat. Science Notes ECE 320

Approved Natural Science (N) Electives

Required: CH 101, PH 105, and PH 106

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

KEY

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

Revision 2.3 January 2021

Advising Notes

[1]**HI/SB** = History & Social and Behavioral Science
[1]**HU/L/FA** = Humanities/Literature/Fine Arts
- EC 110 is a 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 other UA Engineering Department will meet CE 121 requirements

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JUNIOR YEAR

Fall 15 Hours			Spring 16 Hours		
CE 262 AEM 250	CE 331 Structural Engr (3)	CE 406 CE 433 CE 434 CE 462	CE 262 AEM 250	CE 340 Geotechnical Engr (4)	CE 406
CE 262	CE 366 Construction Engr (3)	CE 406 CE 462	CE 331	CE 434 Steel Design I	
MATH 227 AEM 201 CE 320	AEM 311 Fluid Mechanics (3)	CE 378 ME 407	ECE 320 or ECE 225	ECE 350 Elec Power & Machines (3) *Spring Only*	
PH 106 MATH 238	ECE 320 Fund of Electrical Engr (3)		MATH 126	ME 216 Themal Engr Survey (3) *Spring Only*	ME 407
	HI/SB[1] Elective HI/SB (3)			HI/SB[1] Elective HI/SB (3)	

SENIOR YEAR

Fall 15 Hours			Spring 16 Hours		
	Senior Plan of Study Elective* (3)		See List Below See List Below	CE 406 Capstone Design Buildings Arch E (4)	
CE 331	CE 433 Reinforced Concrete I (3) *Fall Only*			Senior Plan of Study Elective* (3)	
ME 216 AEM 311	ME 407 Heating Vent & Air Cond (3) *Fall Only*			Senior Plan of Study Elective* (3)	
	COM 123 Public Speaking HU (3)		CE 331 CE 366	CE 462 Vertical Construction (3) *Spring Only*	
	HU/L/FA[1] Elective HU/L/FA (3)			ARH 252 Survey of Art I Or ARH 253 Survey of Art II HU/L/FA (3)	

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Advising Notes-Plan of Study

- *Please see the student guide to **Senior Plan of Study Electives** for a full list of electives and requirements..
- All ArchE students are strongly encouraged to prepare for and take the **Fundamentals of Engineering (FE) Exam. The department recommends taking during or immediately following last semester**

Senior Design Prequisite and Corequisite Requirements

CE 406 Capstone Design Buildings: ArchE

- Prerequisites CE 331, CE 340, and CE 366 (C- or greater required)
- Co-requisites (may be taken concurrently with CE 406): CE 433, CE 434, and CE 462 (C- or greater required)

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- CE 220 and EC 110 are recommended as SB electives
- Foreign language is recommended as HU electives

C = Computer Science
W = Writing