Bachelor of Science in Architectural Engineering

Valid for students in the 26-27 catalog year.

126 Hours

FRESHMAN YEAR

Fall 17 Hours	Spring 16 Hours
MATH 125 Calculus I [4]	MATH 126 Calculus II [4]
Approved Science Elective [4] See note below	PH 105 Physics I w/CAL I [4]
HU/L/FA/WL Elective [3]	UA 101 Legends [1] ENGR 101 The World of Engineering [1]
HI/SB Elective [3]	CE 261 Geomatics [3]
EN 103 English Comp FC [3]	ENGR 104 Fundamentals of Engineering [3]

SOPHOMORE YEAR

Fall 17 Hours	Spring 16 Hours
MATH 126	MATH 227 Calculus III [4]
PH 105	PH 106 Physics II [4]
ENGR 104 MATH 126	CE 382 Architectural Engineering Fundamentals [3]
MATH 125 PH 105 ENGR 104	AEM 201 Statics [3]
ARH 256 Art History II [3]	

Spring 16 Hours	
MATH 125	AEM 250 AEM 264 GES 255 MATH 227 MATH 238
MATH 125	PH 106 AEM 201
ENGR 104 MATH 115 or MATH 113	
MATH 112	GES 255

Spring 16 Hours	
MATH 126	MATH 238 Differential Equations [3]
	CH 101 Chemistry I [4]
AEM 201	CE 262 Civil Engineering Materials [3]
AEM 201 MATH 126	AEM 250 Mechanics of Materials [3]
ENGR104 MATH 126	GES 255 Engineering Statistics [3]

Fall 17 Hours	Spring 16 Hours
MATH 126	AEM 311 ECE 225
PH 105	ECE 225
	CE 406
	AEM 250 AEM 264 AEM 311
	ARH 256 Art History II [3]

Spring 16 Hours	
	ECE 225
AEM 201 CE 262 Civil Engineering Materials [3]	CE 310 CE 331 CE 340 CE 382
AEM 201 MATH 126	CE 331 CE 340
	CE 366

Approved Science Elective

Any core curriculum Natural Science designated course except:

BSC 108	BSC 109	CH 101
CH 104	CH 117	PH 101
PH 102	PH 105	PH 106
PH 115	PH 125	PH 126

Built by Bama Core

FC - 3 or 6 credit hours depending on high school GPA

HI/SB - 9 credit hours with at least 3 in HI

HU/L/FA/WL - 9 credit hours with at least 3 in L

USGC - 3 credit hours; must be taken at UA

W - 3 credit hours; must be taken at UA

Courses must carry the appropriate core designation at the time they are taken. Designations are not applied retroactively. Always check the course catalog for the current core class list.

Advising Notes

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.

Maximum of 12 hours of 300/400 level courses can be transferred.

Students are limited to a maximum of two attempts per course offered by the College, excluding withdrawals.

KEY

Prerequisites Prerequisites w/ Concurrency	Course XXX Title Credits	Downward Depend-encies

Use this flowchart to help plan your coursework, but always refer to the UA Undergraduate Catalog for official academic requirements. This flowchart does not override curriculum requirements.

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JUNIOR YEAR

Fall — 15 Hours

AEM 201 MATH 227	AEM 311 Fluid Mechanics [3]	ME 407
AEM 250 CE 262	CE 331 Intro to Structural Engineering [3]	CE 433 CE 434 CE 462
CE 262 GES 255	CE 366 Intro to Construction Engineering [3]	CE 414 CE 462
AEM 201 MATH 126	AEM 264 Dynamics [3]	
	HI/SB Elective [3]	

Spring — 16 Hours

CE 262 AEM 250	CE 340 Geotechnical Engineering W [4]	CE 406
CE 331	CE 434 Structural Steel Design I [3]	CE 406
MATH 126	ME 216 Thermal Engineering [3]	ME 407
	Course Offered Spring Only	
CE 366 CE 331	CE 462 Vertical Construction [3]	CE 406
	Course Offered Spring Only	
CE 366	CE 414 Information Systems [3]	

SENIOR YEAR

Fall — 16 Hours

CE 262	CE 310 Engineering Citizenship W/USGC [3]	CE 406
CE 331	CE 433 Reinforced Concrete I [3]	CE 406
	Course Offered Fall Only	
AEM 311 ME 216	ME 407 Heating, Ventilation, & Air Conditioning [3]	
PH 106 MATH 227 MATH 238 ENGR 104	ECE 225 Electrical Circuits [4]	ECE 350
	HI/SB Elective [3]	

Spring — 13 Hours

ECE 225	ECE 350 Electric Power & Machines [3]	
	Course Offered Spring Only	
See General Elective Notes	General Elective [3]	
CE 310 CE 433 CE 340 CE 434 CE 382 CE 462 No Concurrency Allowed	CE 406 Capstone Design [4]	
	HU/L/FA/WL Elective [3]	
	Strongly Encouraged To Take FE Exam	

General Electives

Choose from CCEE, Engineering, Mathematics, Data Science, Natural Science or Business. See UA Catalog for more detailed information.

CE 406 Capstone Design Building: ArchE

Prerequisites (C− or greater): CE 310, CE 340, CE 382, CE 433, CE 434, and CE 462.

Prerequisites with concurrency (can be taken concurrently): None

Capstone Design CE 406 must be taken at UA. No transfer credit accepted.

Beyond Graduation

Graduating in Architectural Engineering places you at the intersection of design, technology, and construction. As an ArchE graduate, you will help shape the built environment by designing building systems that are safe, sustainable, efficient, and resilient. Your career paths may include structural, mechanical, electrical, and construction engineering, building performance and sustainability consulting, construction management, and interdisciplinary design practice. Whether you work in design firms, construction companies, public agencies, or emerging technology sectors, you will play a vital role in turning architectural vision into functional, enduring spaces that serve communities for generations.