Bachelor of Science in Environmental 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 PH 105	MATH 125	MATH 126 Calculus II [4]	AEM 250 AEM 264 GES 255 MATH 227 MATH 238
	CH 101 Chemistry I [4]	CH 102 CE 320	MATH 125	PH 105 Physics I w/CAL I [4]	AEM 201
	HU/L/FA/WL Elective [3]		UA 101 Legends [1]	ENGR 101 The World of Engineering [1]	
	HI/SB Elective [3]		ENGR 104 MATH 115 or MATH 113	CE 261 Geomatics [3]	
	EN 103 English Comp FC [3]		MATH 112	ENGR 104 Fundamentals of Engineering [3]	GES 255

SOPHOMORE YEAR

Fall 17 Hours			Spring 16 Hours		
MATH 126	MATH 227 Calculus III [4]	AEM 311	MATH 126	MATH 238 Differential Equations [3]	
CH 101	CH 102 Chemistry II [4]			BSC 114/115 Principles of Biology [4]	CE 420
	HI/SB Elective [3]		AEM 201	CE 262 Civil Engineering Materials [3]	CE 310 CE 331 CE 340 CE 366
MATH 125 PH 105 ENGR104	AEM 201 Statics [3]	AEM 250 AEM 264 AEM 311	AEM 201 MATH 227	AEM 311 Fluid Mechanics [3]	CE 425
ENGR104 MATH 126	GES 255 Engineering Statistics [3]	CE 420		HU/L/FA/WL Elective [3]	

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 — 16 Hours

CE 262	CE 310 Engineering Citizenship W/USGC [3]	Capstone Design
CH 101 AEM 311	CE 320 Intro to Environmental Engineering [3]	CE 420 CE 422 CE 424 CE 425
MATH 126 PH 105	ME 215 Thermodynamics [3]	
	Cannot take ME 216	
AEM 201 MATH 126	AEM 250 Mechanics of Materials [3]	CE 340
	Approved Earth Science Elective [4] See note below	

Spring — 16 Hours

AEM 311 CE 320	CE 425 Air Quality Engineering [3]	
	Course Offered Spring Only	
CE 262 AEM 250	CE 340 Geotechnical Engineering W [4]	Capstone Design
AEM 264	CE 378 Water Resources Engineering [3]	Capstone Design
See General Elective Notes	General Elective [3]	
AEM 201 MATH 126	AEM 264 Dynamics [3]	CE 378

SENIOR YEAR

Fall — 15 Hours

CE 320	CE 422 Hazardous Waste [3]	
	Course Offered Fall Only	
CE 320	CE 424 Wastewater Treatment [3]	Capstone Design
	Course Offered Fall Only	
CE 378	CE 475 Hydrology [3]	Capstone Design
See General Elective Notes	General Elective [3]	
	HI/SB Elective [3]	

Spring — 13 Hours

AEM 311 CE 320 BSC 114/115	CE 420 Environmental Measurements [3]	Capstone Design
	Course Offered Spring Only	
See General Elective Notes	General Elective [3]	
CE 310 CE 378 CE 340 CE 475 CE 420 CE 424	CE 405 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.

Approved Earth Science Electives:

GEO 101 GY 101
GEO 102 GY 102
GEO 104 GY 202
GEO 105 GY 207
CE 270

Capstone Design Requirements

Pre-req: CE 310, CE 320, CE 340, CE 378, and CE 475

Prerequisites with concurrency: CE 420 and CE 424

CE 405 must be taken at UA. No transfer credit accepted

Beyond Graduation

Graduating in Environmental Engineering places you at the forefront of protecting public health and the natural environment. As an environmental engineering graduate, you will design and implement systems that provide clean water, treat wastewater, manage solid and hazardous waste, improve air quality, and restore impacted ecosystems. Your career paths may include water and wastewater engineering, environmental remediation, sustainability consulting, regulatory compliance, and public health engineering. Whether you work in consulting firms, government agencies, industry, or research organizations, you will play a vital role in creating sustainable solutions that safeguard communities and preserve natural resources for future generations.