

Name:

Banner:

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			Credit	Semester/Year Completed	Grade	Prerequisites and Co-Requisite
			Freshman Year	FALL SEMESTER	GEEN 100 Fundamentals of Engineering (F,S)	2
GEEN 111 College of Eng. Colloquium (F)	1					
CAEE 121 CAEE Colloquium (F,S)	0					
MATH 131 Calculus 1**	4					
CHEM 106 General Chemistry **	3					
CHEM 116 General Chemistry Lab VI	1					
ENGL 100 English Composition I	3					
SEMESTER TOTAL	14					
SPRING SEMESTER	MATH 132 Calculus 2**	4				Pre-MATH 131
	ENGL 101 English Composition II	3				
	PHYS 241 Physics I**	3				Co=MATH 132,PHYS 251
	PHYS 251 Physics I Lab	1				Co=MATH 132, PHYS 241
	CAEE 101 Graphics in CAEE (F,S) (2 sections)	2				
	General Education Course (African American, Global Studies, Humanities, Social Science, or Science Elective)	3				See General Education Course List
	SEMESTER TOTAL	16				
Sophomore Year	FALL SEMESTER		Credit	Semester/Year Completed	Grade	Prerequisites and Co-Requisite
		MATH 231 Calculus III**	4			Pre=MATH 132
		PHYS 242 General Physics II	3			Pre=PHYS 241, Co=PHYS 252
		PHYS 252 General Physics II Lab	1			Pre=PHYS 241, Co=PHYS 242
		CAEE 231 Mechanics I, Statics** (F,S) (2 sections in F)	3			Pre=PHYS 241, MATH 131, CAEE 101, Co= CAEE 230
		CAEE 230 Statics Lab (F,S) (2 sections in F)	1			Pre=PHYS 241, MATH 131, CAEE 101, Co= CAEE 231
		AREN 112 Architectural History (or CAEE 204) (F)	3			
		SEMESTER TOTAL	15			
	SPRING SEMESTER	MATH 341 Intro to Differential Equations	3			Pre=MATH 132
		AREN 281 BIM and Intro to Bldg Systems (S) (2 sections)	2			Pre = CAEE 101
		ECEN 340 Electrical Circuits** (F,S)	3			Pre=PHYS 242; Co=MATH 341
		MEEN 241 Thermodynamics (F,S)	3			Pre=CHEM 106 and MATH 132
		CAEE 232 Solid Mechanics I** (F,S) (2 sections in S)	3			Pre=CAEE 231 and MATH 132
		CAEE 240 Numerical Methods (F,S) (2 sections in S)	3			Pre=MATH 231, Co=MATH 341
SEMESTER TOTAL		17				

** denotes minimum passing grade "C-"

		Credit	Semester/Year Completed	Grade	Prerequisites and Co-Requisite	
Junior Year	FALL SEMESTER	AREN 343 Heat Transfer and Applied Therm. (F)	2		Pre=MEEN 241	
		AREN 382 Architectural Design I (F)	3		Pre = MATH 132	
		CAEE 362 Engineering Fluids** (F,S)	3		Pre=CAEE 231 and MATH 231	
		CAEE 363 Eng Fluid & Hydraulics Lab (F,S) (3 sections)	1		Pre=CAEE 231 and MATH 231	
		CAEE 304 Engineering Statistics (F,S)	3		Pre=CAEE 232	
		AREN 348 Fundamental of Illumination/Power (F)	3		Pre=PHYS 242 and Co=AREN 344	
		AREN 344 Lighting/Power Lab (F) (2 sections)	1		Co=AREN 348	
		SEMESTER TOTAL	16			
	SPRING SEMESTER	AREN 387 Integrated Building Design (S) (2 sections)	3		Pre = AREN 382 and Junior Standing	
		CAEE 330 Construction Materials & Methods (F,S)	3		Pre=CAEE 232, Co=CAEE 335	
		CAEE 335 Construction MATERIALS Lab (F,S) (2 sections)	1		ISEN 370 Requires Approval From Department Chair	
		CAEE 325 Structural Analysis (F,S)	3		Pre=CAEE 232	
		AREN 364 HVAC Principles (S)	2		Pre=PHYS 242, AREN =343, Co=AREN 363	
		AREN 363 HVAC Lab	1		Co=AREN 364	
		CAEE 401 FE Topics Review (S)	0		Pre =CAEE 232	
General Education Course (African American, Global Studies, Humanities, Social Science, or Science Elective)		3		See General Education Course List		
SEMESTER TOTAL	16					
Senior Year	FALL SEMESTER	AREN 480 Senior Project I (F) (2 sections)	2		Pre= senior standing, AREN 348, AREN 382, AREN 364, & CAEE 430	
		AREN 462 HVAC Design and Hydronic System Design (F)	3		Pre = AREN 364 and Senior standing	
		CAEE 450 Construction Management (F)	3			
		CAEE 430 Structural Design (F,S)	3		Pre=CAEE 232, Co=CAEE 325	
		General Education Course (African American, Global Studies, Humanities, Social Science, or Science Elective)	3		See General Education Course List	
		SEMESTER TOTAL	14			
	SPRING SEMESTER	AREN 486 Senior Project II (S) (2 sections)	2		Pre= senior standing, AREN 348, AREN 364 AREN 382, & CAEE 430	
		Design Elective (CAEE 436, CAEE 481, or CAEE 482) (F,S)	3			
		AREN 467 Electrical Syst & Smart Bldgs (S)	2		Pre = ECEN 340, AREN 344, AREN 348	
		CAEE 334 Eng. Mech II Dynamics (F,S)	2		Pre=CAEE 231	
		General Education Course (African American, Global Studies, Humanities, Social Science, or Science Elective)	3		See General Education Course List	
		SEMESTER TOTAL	12			
			Total Number of credits required in program:	120		
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* **Design Electives: Select one:** CAEE 450 Construction Management; CIEN 460 Water Resources; CAEE 482 Construction Projects - on demand

SCIENCE COURSES ACCEPTED IN CAEE as SCIENCE ELECTIVE: ENVS 201 Earth's Environment; BIOL 100 Biology + Lab; ENVS 209 Geology (taught in Spring Only)