

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 101 Graphics in CAEE (F,S) (2 sections)	2					
MATH 131 Calculus 1**	4					
CHEM 106 General Chemistry **	3					
CHEM 116 General Chemistry Lab VI	1					
ENGL 100 English Composition I	3					
<u>SEMESTER TOTAL</u>	16					
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 121 CAEE Colloquium (F,S)		0			
	<u>General Education Course</u> (African American, Global Studies, Humanities, Social Science, or Science Elective)		3			See General Education Course List
	<u>SEMESTER TOTAL</u>	14				
Sophomore Year	FALL SEMESTER	MATH 231 Calculus III**	4			Pre=MATH 132
		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
		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 204 Fundamentals of Surveying (F)	3			
		<u>SEMESTER TOTAL</u>	15			
		SPRING SEMESTER	MATH 341 Intro to Differential Equations	3		
	CIEN 281 Civil Engineering CAD (S) (2 sections)		1			Pre = CAEE 101
	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 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
	<u>General Education Course</u> (African American, Global Studies, Humanities, Social Science, or Science Elective)		3			See General Education Course List
<u>SEMESTER TOTAL</u>	17					

** denotes minimum passing grade "C-"

		Credit	Semester/Year Completed	Grade	Prerequisites and Co-Requisite
Junior Year	FALL SEMESTER	CAEE 325 Structural Analysis (F,S)	3		Pre=CAEE 232
		CAEE 330 Construction Materials & Methods (F,S)	3		Pre=CAEE 232, Co = CAEE 335
		CAEE 335 Construction Material Lab (F,S) (2 sections)	1		Pre = CAEE 232, Co = CAEE 330
		CIEN 350 Transportation Engineering I (F)	3		Pre = CAEE 204
		CIEN 320 Geotechnical Eng. I (F)	3		Pre=CAEE 362 & CAEE 363
		CIEN 321 Geotechnical Eng. I Lab (F) (3 sections)	1		Pre=CAEE 362 & CAEE 363, Co = CIEN 320
		CAEE 400 FE Topics Review (F)	1		Pre = CAEE 232
		SEMESTER TOTAL	15		
	SPRING SEMESTER	CIEN 310 Environmental Engineering (S)	3		Pre=Junior Standing, CHEM 106, MATH 341, Co = CIEN 311
		CIEN 311 Environmental Eng. Lab (S) (3 sections)	1		Pre=Junior Standing, CHEM 106, MATH 341 Co= CIEN 310
		CIEN 422 Geotechnical Eng. Design (S)	3		Pre=CIEN 320 & CIEN 321
		CAEE 304 Engineering Statistics (F,S)	3		
		CIEN 364 Engineering Hydrology (S)	3		Pre=CAEE 362
		CAEE 430-Structural Design (F,S)	3		Pre=CAEE 232 & CAEE 325
SEMESTER TOTAL		16			
Senior Year	FALL SEMESTER	CIEN 483 CE System Design I (F) (2 sections)	1		Pre= Senior Status, CIEN 310, CIEN 320, CIEN 350
		CAEE 436 Reinforced Concrete Design (F,S)	3		Pre=CAEE 232 & CAEE 325
		CAEE 481 Construction Engineering I (F,S)	3		Pre= senior status
		CIEN 412 Environmental Eng. Design (F)	3		Pre=CIEN 310 & CIEN 311
		CAEE 334 Eng Mech II Dynamics (F,S)	2		Pre=CAEE 231 OR MEEN 230
		General Education Course (African American, Global Studies, Humanities, Social Science, or Science Elective)	3		See General Education Course List
		SEMESTER TOTAL	15		
	SPRING SEMESTER	CIEN 484 CE System Eng. Design II (S) (2 sections)	2		Pre= Senior Status, CIEN 483
		CIEN 453 Transportation Eng. Design (S)	3		Pre=CIEN 350
		CIEN 405 FE Review (S)	1		Pre = CIEN Major Only, Senior Standing, CAEE 400
		*CIEN Design Electives (CAEE 450, CIEN 460, CAEE 482)			
		General Education Course (African American, Global Studies, Humanities, Social Science, or Science Elective)	3		See General Education Course List
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		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)