http://cee.f	uller	ton.edu Department of Ci	vil and Environmental Engineer	ing		(657) 278-3012
		BS in Civil Er	ngineering Curriculum - Total 120 units			· · ·
Course	Units		Prerequisites	Sem / Yr	Grade	Notes
		GENERAL EDUCATION COURSES: 24 UN		•		
		MATHEMATICS COURSES: 19 UNIT	S			
MATH 150A	Δ	Calculus I	MSE Qualifying Examination			
MATH 150B	4	Calculus II	MATH 150A			
MATH 250A	4	Calculus III	MATH 150B			
MATH 250B	4	Introduction to Linear Algebra & Diff. Equations	MATH 250A			
EGCE 308	3	Engineering Analysis	PHYS 226, MATH 250B			
SCIENCE COURSES: 11 UNITS						
PHYS 225	3	Fundamental Physics: Mechanics	MATH 150A			
PHYS 225L		Fundamental Physics: Mechanics Lab	PHYS 225 ***			
PHYS 226	3	Fundamental Physics: Electricity and Magnetism	PHYS 225, MATH 150B			
PHYS 226L	1	Fundamental Physics: Electricity and Magnetism Lab	PHYS 226 ***			
CHEM 123	3	Chemistry for Engineers	NONE			
CITEIVITES	3	BASIC SCIENCES ELECTIVE COURSE : 3 UNITS	NONE			
BIOL 101	3	Elements of Biology	NONE			
GEOL 101	3	Physical Geology	NONE			
JLUL 101	J	CORE COURSES: 50 UNITS	HOILE			
EGCE 201	2	Statics	MATH 150B, PHYS 225			
EGCE 201	1	Computer-Aided Architectural and CE Drafting	NONE			
EGCE 104	2	Engineering Surveying	EGCE 110LL ***			
EGCE 110L	1	Engineering Surveying Laboratory	EGCE 110 ***			
EGCE 203	3	Mechanics of Materials	MATH 250A, EGCE 201			
EGCE 202	3	Dynamics	MATH 250A, EGCE 201			
EGCE 202	1	Technical Comm. and Computing for Civil Engineers	EGCE 104, ENGL 101			
EGCE 340		Soil Mechanics	EGCE 203			
EGCE 340	1	Soil Mechanics Laboratory	EGCE 340, ENGL 101			
EGCE 341L		Structural Analysis	EGCE 203			
EGCE 320	1	Structural Analysis Laboratory	EGCE 320, EGCE 377, ENGL 101			
EGCE 321L	3	Engineering Economy and Professionalism	MATH 150A, Junior or Senior Standing			
EGCE 401	1	Computer Applications in Civil Engineering Analysis ar				
EGCE 400	1	Civil Engineering Materials Laboratory	EGCE 204, 340, 320, 330, 330			
EGCE 311L	3	Reinforced Concrete Design	EGCE 320			
EGCE 323		5	EGCE 340			
EGCE 342	3	Foundation Design	EGCE 202			
EGCE 330	1	Engineering Hydraulics	EGCE 330, ENGL 101			
	2	Engineering Hydraulics Lab	· ·			
EGCE 326	2	Structural Steel Design	EGCE 320 CHEM 123, MATH 250B			
EGCE 370	3	Environmental Engineering Construction Engineering	EGCE 203, EGCE 401			
EGCE 350 EGCE 494A*	3	5 5	EGCE 325, 326			
EGCE 494A*		Senior Design Senior Design	EGCE 323, 326			
EGCE 494B	1	TECHNICAL ELECTIVES COURSES : 13 UNITS				
EGCE 360	3	Transportation Engineering	EGCE 202 and Senior Standing			
EGCE 360	3	Advanced Construction Materials-Concrete Emphasis	EGCE 325, 311L			
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EGCE 415 **	3	Architectural Design	EGCE 104, EGCE 325, and EGCE 326			
EGCE 420 **		Structural Systems Emphasis on Highrise Structures Structural Dynamics	EGCE 325, 326 EGCE 320			
EGCE 422 **	3	,				
EGCE 425 **	_	Precast & Prestressed Concrete Design	EGCE 325			
EGCE 430 EGCE 431		Design of Hydraulic Structures Engineering Hydrology	EGCE 330 ***			
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EGCE 450	3	Proj Management & Constr Engr Practices	EGCE 370			
EGCE 470	3	Solid Waste Management and Air Pollution Control	EGCE 370			
EGCE 471	3	Water Quality Engineering	EGCE 370			
EGCE 490	1	Senior Seminar in Civil Engineering	Senior Standing			
EGCE 497	_	Senior Project	Senior Standing (Approval of CEE Dept.)			
EGCE 499		Independent Study	Senior Standing (Approval of CEE Dept.)			
EGCE 4XX		Other elective courses offered by CEE on Writing Requirements if the grade is "C" or better. Minimum 6 ur	CEE Department approval			

^{*} Meets Upper Division Writing Requirements if the grade is "C" or better. Minimum 6 units required.

** Required Course for BS in Civil Engineering with Architectural Engineering Emphasis

*** Corequisite