

**Requirements for the Bachelor of Science Degree in Civil Engineering
Implementation Date: Fall 2004 (For graduation date 2007 and beyond)**

130 hrs

Student Name _____


Freshman		32		hrs			
Fall		Grade		Spring		Grade	
ENGL 101	English Composition I	3	<input type="checkbox"/>	LIBA 102	First Year Seminar	3	<input type="checkbox"/>
MATH 261	Calculus I	3	<input type="checkbox"/>	MATH 262	Calculus II	3	<input type="checkbox"/>
CHEM 105	Chemistry I	3	<input type="checkbox"/>	PHYS 211	Physics I	3	<input type="checkbox"/>
CHEM 115	Chemistry Lab I	1	<input type="checkbox"/>	PHYS 221	Physics Lab I	1	<input type="checkbox"/>
US 101	University Principles	1	<input type="checkbox"/>	CSCI 251	Programming	3	<input type="checkbox"/>
CE 101	Introduction to CE I	1	<input type="checkbox"/>	CE 102	Introduction to CE II	1	<input type="checkbox"/>
	Soc-Hum	3	<input type="checkbox"/>		Soc-Hum	3	<input type="checkbox"/>
Total		15		Total		17	

Sophomore		34		hrs			
Fall		Grade		Spring		Grade	
MATH 263	Calculus III	3	<input type="checkbox"/>	MATH 264	Calculus IV	3	<input type="checkbox"/>
PHYS 212	Physics II	3	<input type="checkbox"/>	MATH 353	Differential Equation	3	<input type="checkbox"/>
PHYS 222	Physics Lab II	1	<input type="checkbox"/>	ENGR 321	Thermodynamics	3	<input type="checkbox"/>
ENGR 309	Intro Mechanics	3	<input type="checkbox"/>	ENGR 312	Mechanics Materials	3	<input type="checkbox"/>
ENGR 207	Graphics I	1	<input type="checkbox"/>	CE 207	Surveying	2	<input type="checkbox"/>
	Soc-Hum	3	<input type="checkbox"/>	SPCH 105	Business Prof Speech	3	<input type="checkbox"/>
	Soc-Hum	3	<input type="checkbox"/>				
Total		17		Total		17	

Junior		32		hrs			
Fall		Grade		Spring		Grade	
ENGR 310	Eng Analysis I	4	<input type="checkbox"/>	CE 307	CE Lab I	1	<input type="checkbox"/>
ENGR 323	Fluid Mechanics	3	<input type="checkbox"/>	CE 315	CE Material	3	<input type="checkbox"/>
ENGR 360	Electric Circuit	3	<input type="checkbox"/>	CE 325	Dynamics	3	<input type="checkbox"/>
CE 411	Structural Analysis	3	<input type="checkbox"/>	CE 412	Structural Design I	3	<input type="checkbox"/>
CE 481	Transportation Eng I	3	<input type="checkbox"/>	CE 431	Soil Mechanics	3	<input type="checkbox"/>
					Technical Elective	3	<input type="checkbox"/>
Total		16		Total		16	

Senior		32		hrs			
Fall		Grade		Spring		Grade	
CE 407	CE Lab II	1	<input type="checkbox"/>	ENGR 402	Eng Fundamentals	1	<input type="checkbox"/>
CE 417	Construct Management	3	<input type="checkbox"/>	CE 453	Probabilistic Design	3	<input type="checkbox"/>
CE 433	Foundation	3	<input type="checkbox"/>	CE 456	CE Design II	3	<input type="checkbox"/>
CE 455	CE Design I	2	<input type="checkbox"/>	CE 472	Environ Water Resour	3	<input type="checkbox"/>
CE 471	Environmental Eng	3	<input type="checkbox"/>	ECON310	Eng Economics	3	<input type="checkbox"/>
ENGR 400	Leadership & Profess.	1	<input type="checkbox"/>		Technical Elective	3	<input type="checkbox"/>
	Technical Elective	3	<input type="checkbox"/>				
Total		16		Total		16	

Symbols registered
 in progress
 completed



Social Science/Humanity/Fine Art Requirements

Soc	ECON 310	<input type="checkbox"/>	Soc/Hum/Art	<input type="checkbox"/>
Hum		<input type="checkbox"/>	Soc/Hum/Art	<input type="checkbox"/>
Art		<input type="checkbox"/>	Expanded Cat. SPCH 105	<input type="checkbox"/>

Social Sciences: Afro-Am studies, anthropology, economics, political science, psychology, sociology

Humanities: classics, English, history, modern languages (200 & above), philosophy, religions, southern studies

Arts: history, appreciation & criticism of art, dance, music, theater

Expanded Category: All Soc/Hum/Art courses plus communication and leadership courses (see below for detail).

Recommended Technical Electives

CE 413	Structural Design II	3	CE 590	Airport Planning Design	3
CE 497	CE Projects	3	ENGR 590	Finite Element	3
CE 511	Structure Dynamics	3	GE 305	Geomechanics	3
CE 521	Advanced Mech Mat	3	GE 440	Rock Mechanics	3
CE 570	Infrastructure Managem	3	GE 450	Hydrogeology	3
CE 581	Transportation Eng II	3	GE 470	Intro GIS	4
CE 585	Highway Pavement	3	Other courses with the approval of advisor		

Prerequisite

Math	27 ACT - MATH 261 - MATH 262 - MATH 263 - MATH 264 MATH 264 (corequisite) - MATH 353 - ENGR 310
English	ENGL 101 - ENGL 102
Chemistry	MATH 121 - CHEM 105/115
Physics	MATH 211 - PHYS 211/221 - PHYS 212/222
Computer Science	MATH 261 (coreq) - CSCI 251
Mechanics/Structure	PHYS 211/MATH 263 (coreq) - ENGR 309 - ENGR 312 - CE 411 - CE 412
Dynamics	ENGR 309 - CE 325
Surveying	ENGR 207 - CE 207
Thermodynamics	PHYS 211/MATH 263 (coreq) - ENGR 321
Electric Circuit	PHYS 212/MATH 353 (coreq) - ENGR 362
Fluid	ENGR 323 - CE 472
Environmental	ENGR 323 - CE 471
CE Labs	CE 431 (coreq) - CE 307 - CE 407
CE Design	Senior standing - CE 455 - CE 456
Soil	ENGR 312 - CE 431
Foundation	CE 411/CE 431 - CE 433
Transportation	ENGR 310 - CE 481
Probabilistic Design	MATH 353 (coreq) - CE 453

Social Sciences and Humanities/Fine Arts Electives • Students receiving degrees through the school must complete a minimum of 18 semester hours of social sciences and humanities/fine arts course work. Courses selected should meet the following requirements: (a) At least 3 hours of work in one field of the social sciences; (b) at least 3 hours in one field of the humanities; and (c) at least 3 hours in one field of the fine arts. The remaining 9 hours of work can be taken in any of the social sciences, humanities, and fine arts fields. 3 of the 9 hours can be taken in the "expanded category" (see below). For the purpose of this regulation **social sciences** will include Afro-American studies, anthropology, economics, political science, psychology, and sociology; **humanities** will include classics, English, history, modern languages (200-level and above), philosophy, religions, and Southern studies; and **fine arts** will include courses in the history, appreciation and criticism of art, dance, music, and theatre arts. (Courses emphasizing the enhancement of skills and performance are not acceptable.) Honors courses may be used to meet these requirements as appropriate, depending on their topical content.

Expanded category is defined as all courses in the social sciences, humanities, and fine arts, as described above, plus the following communication and leadership courses: AS 301 (3), AS 302 (3), Bus 250 (2), Bus 271 (3), EDLD 110 (1), EDLD 111 (1), EDLD 120 (3), EDLD 220 (3), ENGR 400 (1), MGMT 371 (3), MSC 102 (2), NSC 211 (2), SPCH 105 (3).

Course Substitution and Justification

Course in program	Substitution	Justification	Advisor Signature	Date
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Other comments

Changes:

1. Change ENGR 360 to ENGR 362, Electric Circuit for non-electrical engineering major. -1 credit
2. Eliminate ENGR 361, Circuit Lab. -1 credit
3. One Soc/Hum course is replaced by ECON 310, already in program. -3 credits
4. Replace ENGR 322 Transport Phenomena by ENGR 3xx Fluid Mechanics. No change in credit
5. Replace CE 422 Applied Fluid Mech by CE 472 Environmental Water Resources. No change in credit
6. One Soc/Hum course is required to be SPCH 105. No change in credit.
7. Add one course Technical Elective. + 3 credits
8. Add one course ENGR402 Engineering Fundamentals. +1 credit

Net change: -1 credit hours. Total: 130 hours