

**Civil Engineering Flow Chart (Environmental Engineering Concentration) 12-13**

Name: \_\_\_\_\_

Student ID No.: \_\_\_\_\_

	Semester					Course				
	Hours	Hours	Hours	Hours	Hours	Offered	Number	Title	Pre-Requisites	
Term 1	CHM 114	FSE 100	ENG 101	MAT 265	HU/SB	ASU 101	2	F,S	FSE 100 Intro Civ Eng	CEE Student
	Gen Chem	Intr to CE	Fr. Comp.	Calc. I	Elective	ASU Exp	3	F, S,SU	CEE 210 Statics	CEE 100, MAT 266 (or 271), PHY 121/122
							3	F, S,SU	CEE 212 Thermo Materials	CEE 210/211, MAT 275
	4	2	3	3	3	1	3	F, S,SU	CEE 213 Deformable Solids	CEE 210/211, MAT 275
							3	F, S	CEE 300 Engin Business Practice	CEE 213
							4	F, S	CEE 321 Structural Anal and Design	CEE 212, CEE 213
Term 2	MAT 242	ENG 102	MAT 266	PHY121/12	HU/SB		4	F, S	CEE 341 Fluid Mechanics	CEE 212, CEE 213, pre/co req CEE 384
	Lin Alg	Fr. Comp	Calc. II	Physics I	Elective		4	F, S,SU	CEE 351 Geotechnical Engineering	CEE 213
							3	F,S,SU	CEE 353 Civil Engineering Materials	CEE 213
	2	3	3	3+1	3		4	F,S,SU	CEE 361 Intro to Enviro Engineering	CEE 213, CHM 114 or CHM 116 (D), Pre/Co Req IEE 38C
							4	F, S	CEE 372 Transportation Engineering	CEE 213, Pre/Co Req IEE 380 (D)
							3	F, S	CEE 384 Numerical Methods	MAT 242, 267 , 275
Term 3	CEE 210	MAT 267	PHY131/32	MAT 275	ECN		4	F, S	CEE 400 Earth Systems Engin Mgt	CEE 300
	Statics	Calculus II	Physic II	Mod Diff O	201/211/212		3	F, S	CEE 440 Hydrology	CEE 341 or MAE 340
							3	S	CEE 441 Water Resource Engineering	CEE 341
	3	3	3+1	3	3		3	S	CEE 462 Unit Operations	CEE 361
							3	F	CEE 466 Urban Water System Design	CEE 341and 361
							3	F	CEE 467 Environmental Microbiology	CEE 361 or MIC 220
Term 4	Basic Sci	CEE 213	CEE 212	MAE 240	IEE 380		3	F,S	CEE 486 Integrated Civil Eng Design	Last Semester and Dept Consent
	Elective	Def Solids	Dynamics	Thermo	Prob/Stats		3	F		
							3	F		
	3	3	3	4	3		3	F		
							3	F		
							3	F,S		
Term 5	CEE 384	CEE 353	CEE 341	CEE 361			4	F,S	MAE 240 Thermofluids I	CEE 212
	Num Meth	Civ Eng Ma	Fluid Mech	Environ Eng			3	F,S,SU	IEE 380 Prob Stats Engr Prob Solving	MAT 266, Mat 271
							3	F, S, SU	MAT 242 Elem Linear Algebra	MAT 265 or MAT 270
	3	3	4	4			3	F, S, SU	MAT 265 Calc Analyt Geom I	Grade of "C" or better in MAT 170 or equiv
							3	F, S, SU	MAT 266 Calc Analyt Geom II	MAT 265
							3	F, S, SU	MAT 267 Calc Analyt Geom III	MAT 266
Term 6	CEE 300	CEE 372	CEE 321	CEE 351			3	F, S, SU	MAT 275 Elem Diff Equns	MAT 267
	Eng Bus	Trans Eng	Struc Dsgn	Geo Eng			3	F, S, SU		
							3	F, S, SU		
	3	4	4	4			3	F, S, SU	PHY 121 Univ Physics I: Mech	MAT 265
							1	F, S, SU	PHY 122 Univ Physics I Lab	Pre or co-req PHY 121
							3	F, S, SU	PHY 131 Univ Phys II: Elec Mag	PHY 121; MAT 251; co-req MAT 252
Term 7	CEE 400	CEE 440	CEE 466	CEE 467	Tech		1	S, SU	PHY 132 Univ Physics II Lab	pre-or co-req PHY 131
	Erth sys	Hydro	Urb Water	Env Micro	Elective		3	F, S, SU		
							1	S, SU		
	3	3	3	3	3		4	F, S, SU	CHM 114 General Chemistry	1 year high school chemistry
Term 8	HU/SB	CEE 441	CEE 462	CEE 486						
	Elective	Water Res	Unit Op	Int Design						
	3	3	3	4						

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TOTAL 120

**General Studies 15 hrs (5 classes)**

HU	CEE 400
HU	
SB	ECN
SB	
UD	CEE 400
C	
G	
H	CEE 400

**TECH ELECTIVES**

CEE 281, 412, 420, 421, 452, 474, 475, 481, 483, BIO 320, BCH 361, CHM 302, 341, PUP 442, 475

**Recommended Basic Science:** CHM 231

**Recommended SB:** COM 100, 110, 320, GCU 141, 361, 442

**Recommended HU:** CEE 181, CON 101, APH 100, PUP 100, 200

**Notes**

F-Fall, S-Spring, SU-Summer

All pre-reqs are with a C min. unless otherwise specified

  Critical courses used for transfer students

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