

Civil Engineering Flow Chart 12-13

Name: _____

Student ID No.: _____

	Semester					Course	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	CESE Student	
	Gen Chem	Intro to CE	Fr. Comp.	Calc. I	Elective	ASU Exp	3	F, S	CEE 181	Tech, Soc and Sust	None	
							3	F, S,SU	CEE 210	Statics	CEE 100, MAT 266 (or 271), PHY 121/122	
							3	F, S,SU	CEE 212	Dynamics	CEE 210/211, MAT 275	
							3	F, S,SU	CEE 213	Deformable Solids	CEE 210/211, MAT 275	
							3	F, S	CEE 300	Engin Business Practice	CEE 213	
Term 2	MAT 242	ENG 102	MAT 266	HY121/12	HU/SB		4	F, S	CEE 321	Structural Anal and Design	CEE 212, CEE 213	
	Lin Alg	Fr. Comp	Calc. II	Physics I	Elective		4	F, S	CEE 341	Fluid Mechanics	CEE 212, CEE 213, pre/co req CEE 384	
							4	F, S,SU	CEE 351	Geotechnical Engineering	CEE 213	
							3	F,S,SU	CEE 353	Civil Engineering Materials	CEE 213	
							4	F,S,SU	CEE 361	Intro to Enviro Engineering	CEE 213, CHM 114 or CHM 116 (D), Pre/Co Req IEE 380 (D)	
							4	F, S, SU	CEE 372	Transportation Engineering	CEE 213, Pre/Co Req IEE 380 (D)	
Term 3	CEE 210	MAT 267	PHY131/32	MAT 275	ECN	201/211/212	3	F, S	CEE 384	Numerical Methods	MAT 242, 267, 275	
	Statics	Calculus II	Physic II	Mod Diff C			3	F,S	CEE 400	Earth Systems Engin Mgt	CEE 300	
							3	F,S	CEE 486	Integrated Civil Eng Design	Last Semester and Dept Consent	
							4	F, S	EEE 202	Circuits I	MAT 274 or 275, PHY 131 (D)	
							4	F,S	MAE 240	Thermofluids I	CEE 212	
							3	F,S,SU	IEE 380	Prob Stats Engr Prob Solving	MAT 266 or Mat 271	
Term 4	Basic Sci	CEE 213	CEE 212	MAE 240 d	IEE 380		3	F, S, SU	MAT 242	Elem Linear Algebra	MAT 265 or MAT 270	
	Elective	Def Solids	Dynamics	EEE 202	Prob/Stat		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	
							3	F, S, SU	MAT 275	Mod Diff Equns	MAT 267	
							3	F, S, SU	PHY 121	Univ Physics I: Mech	MAT 265	
Term 5	CEE 384	CEE 353	CEE 321	CEE 351			1	F, S, SU	PHY 122	Univ Physics I Lab	Pre or co-req PHY 121	
	Num Meth	CE Mat	Struct Ana	Geo Eng			3	F, S,SU	PHY 131	Univ Phys II: Elec Mag	PHY 121; MAT 251; co-req MAT 252	
							1	F,S, SU	PHY 132	Univ Physics II Lab	pre-or co-req PHY 131	
							4	F, S, SU	CHM 114	General Chemistry	1 year high school chemistry	
Term 6	CEE 400	Design	Tech	Tech	Tech							
	Erth sys	Elec	Elec	Elec	Elective							
Term 7	SB	Design	Tech	CEE 486								
	Elective	Elec	Elec	Int Design								
Term 8	General Studies 15 hrs (5 classes)											
	HU	CEE 400										
	HU											
	SB	ECN										
	SB											
	UD	CEE 400										
C												
G												
H	CEE 400											

	TECH ELECTIVES	DESIGN ELECTIVES
Structures:	CEE 420, 421, 423, 432	420 or 421
Hydro Systems	CEE 440, 441, 466	441 or 466
Environmental	CEE 462, 467	462
Geotechnical	CEE 452	452
Transportation	CEE 412, 474,475,483	475
Other	CEE 281, 481, 494	

Recommended Basic Science: GLG 101
Recommended SB: COM 100, 110, 320, GCU 141, 361, 421, 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