

Construction Engineering Flow Chart 12-13

	Semester Course Offered					Number	Title	Pre-Requisites	
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	
Term 1	CHM 114 Gen Chem	FSE 100 Intr Civ Engr	ENG 101 Fr. Comp.	MAT 265 Calc. I	HU/SB Elective	ASU 101 ASU Exp	2 F, S 3 F, S, SU 3 F, S, SU 3 F, S, SU 4 F, S 4 F, S, SU	Intro Civ Eng Statics Thermo Materials Deformable Solids Structural Anal and Desigr Geotechnical Engineering Civil Engineering Materials Earth Systems Engin Mgt Integrated Civil Eng Desigi	CEE Student CEE 100, MAT 266 (or 271), PHY 121/122 CEE 210/211, MAT 275 CEE 210/211, MAT 275 CEE 212, CEE 213 CEE 213 CEE 213 ConE Student Last Semester and Dept Consent
	4	2	3	3	3	1	16		
Term 2	MAT 242 Lin Alg	ENG 102 Fresh Comp	MAT 266 Calc. II	PHY121/122 Physics I	CON 101 Con Cult		3 F, S, SU 3 F, S, SU 3 F, S 4 F, S, SU	CON 101 Surveying Hvy Con Equip, Meth, Mat Construction Safety Construction Estimating Con Cost Acc and Control Con Project Management Advance Building Estimati Internship Con Plan and Scheduling Con Contract Administratic	none MAT 265 "C", or MAT 270 "C" none ConE Student CON 243 CON 221 , CON 251 CON 271, CON 383 CON 383 CON 383, CON 389 CON 453
	2	3	3	3+1	3		15		
Term 3	CEE 210 Statics	MAT 267 Calculus III	PHY131/32 Physic II	MAT 275 Mod Diff O	ECN 211/212/201		3 F, S, SU 3 F, S 3 F, S 3 F, S 4 F, S 3 F, S 4 F, S 1 SU 3 F, S 3 F, S	CON 101 CON 241 CON 243 CON 271 CON 383 CON 389 CON 453 CON 483 CON 484 CON 495 CON 496	none MAT 265 "C", or MAT 270 "C" none ConE Student CON 243 CON 221 , CON 251 CON 271, CON 383 CON 383 CON 383, CON 389 CON 453
	3	3	3+1	3	3		16		
Term 4	CON 243 Hvy Cn Eq	CEE 213 Def Solids	CEE 212 Dynamics	EEE 202 or MAE 240	CON 271 Con Safety		3 F, S 4 F, S 4 F, S 1 SU 3 F, S 3 F, S	Con Cult: Built Environ Surveying Hvy Con Equip, Meth, Mat Construction Safety Construction Estimating Con Cost Acc and Control Con Project Management Advance Building Estimati Internship Con Plan and Scheduling Con Contract Administratic	none MAT 265 "C", or MAT 270 "C" none ConE Student CON 243 CON 221 , CON 251 CON 271, CON 383 CON 383 CON 383, CON 389 CON 453
	3	3	3	4	3		16		
Term 5	IEE 380 Prob & Stats	Basic Sci Elective	CEE 353 CE Materials	CEE 321 Struc Anal	CON 389 Acc/Fin		3 F 3 S 3 F, S	CEE 420 CEE 421 CEE 452	CEE 321 CEE 321 CEE 351
	3	3	3	4	3		16		
Term 6	CEE 351 Geo Tech M	CON 241 Surveying	CON 383 Con Est	HU/SB Elective			4 F, S, SU 4 F, S, SU 3 F, S, SU	EEE 202 MAE 240 IEE 380	Circuits Thermofluids I Prob Stats Engr Prob Solv
	4	3	4	3			14		
Summer	CON 484 Internship						3 F, S, SU 3 F, S, SU 3 F, S, SU 3 F, S, SU 3 F, S, SU	MAT 265 Calc Analyt Geom I Calc Analyt Geom II Calc Analyt Geom III Elem Diff Equns Elem Linear Algebra	Grade of "C" or better in MAT 170 or equiv MAT 265 w/grade of "C" or better MAT 266 w/grade of "C" or better MAT 267 MAT 265 or MAT 270
	1						1		
Term 7	CON 455 Proj Mgt II	Dsign Elect 420/421/452	Tech Elect	CON 495 Plan/Sched			3 F, S, SU 1 F, S, SU 3 F, S, SU 1 F, S, SU	PHY 121 Univ Physics I Lab PHY 131 Univ Physics II Lab	MAT 265 Pre or co-req PHY 121 PHY 121; MAT 251; co-req MAT 252 pre-or co-req PHY 131
	3	3	4	3			13		
Term 8	Dsign Elect 420/421/452	CON 496 CC Admin	CEE 400 Earth Syst	CEE 486 Int Design			4 F, S, SU	CHM 114	General Chemistry 1 year high school chemistry
	3	3	3	4			13		
General Studies 15 hrs 5 total classes)							TOTAL	120	
HU		CEE 400							Basic Scienc Elective (3 hours) GLG 101 recommended
HU		CON 101							Technical Electives (4 hours) CEE 372, CON 310, CON 345 (4 hours) *CEE 281, 412, 420, 421, 423, 440, 441, 452, 462, 466, 467, 474, 475, 483 (3 hours) *CON 494 Trenchless Construction(3) CON 296 Internship, CEE 494 Concrete Canoe, CEE 494 Steel Bridge (1 hour)
SB		ECN							
SB									
UD		CEE 400							
C									
G		CON 101							
H		CEE 400							

Notation: F-Fall, S-Spring, SU-Summer

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