

Construction Engineering Flow Chart 13-14

	Semester Hours					Course Offered Hours	Title	Pre-Requisites
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 FSE 100 Intro Civ Eng 3 F, S, SU CNE 210 Statics	CEE Student CEE 100, MAT 266 (or 271), PHY 121/122
							3 F, S, SU CNE 212 Thermo Materials 3 F, S, SU CNE 213 Deformable Solids	CEE 210/211, MAT 275 CEE 210/211, MAT 275
	4	2	3	3	3	1	3 F, S CNE 241 Surveying 3 F, S CNE 243 Hvy Con Equip, Meth, Mat	MAT 265 "C", or MAT 270 "C" none
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 CNE 271 Construction Safety 4 F, S CNE 383 Construction Estimating	ConE Student CNE 243
							4 F, S CEE 321 Structural Anal and Desigr 4 F, S, SU CNE 351 Geotechnical Engineering	CEE 212, CEE 213 CEE 213
	2	3	3	3+1	3		3 F, S, SU CNE 353 Civil Engineering Materials 3 F, S CNE 400 Earth Systems Engin Mgt 4 F, S, SU CNE 486 Integrated Civil Eng Desigr	CEE 213 ConE Student Last Semester and Dept Consent
Term 3	CNE 210 Statics	MAT 267 Calculus III	PHY131/32 Physic II	MAT 275 Mod Diff O	ECN 211/212/201		3 F, S, SU CON 101 Con Cult: Built Environ 3 F, S CON 453 Construction Project Mgt 4 F, S CON 483 Advance Building Estimati	none CON 271 and CON 383 CNE 383
							1 SU CON 484 Internship 3 F, S CON 495 Con Plan and Scheduling 3 F, S CNE 496 Con Contract Administratic	CNE 383, CON 389 CNE 453
	3	3	3+1	3	3			
Term 4	CNE 243 Hvy Cn Eq	CNE 213 Def Solids	CNE 212 Dynamics	EEE 202 or MAE 240	CNE 271 Con Safety		3 F CEE 420 Steel Structures 3 S CEE 421 Concrete Structures 3 F, S CEE 452 Foundations	CEE 321 CEE 321 CEE 351
							4 F, S, SU EEE 202 Circuits 4 F, S, SU MAE 240 Thermofluids I 3 F, S, SU IEE 380 Prob Stats Engr Prob Solv	MAT 274 CEE 212 MAT 266 or Mat 271
	3	3	3	4	3			
Term 5	CNE 383 Con Est	Basic Sci Elective	CNE 353 CE Materials	CNE 351 Geo Tech M	CNE 241 Surveying		3 F, S, SU MAT 265 Calc Analyt Geom I 3 F, S, SU MAT 266 Calc Analyt Geom II 3 F, S, SU MAT 267 Calc Analyt Geom III 3 F, S, SU MAT 275 Elem Diff Equns 3 F, S, SU MAT 242 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
							3 F, S, SU PHY 121 Univ Physics I: Mech 1 F, S, SU PHY 122 Univ Physics I Lab 3 F, S, SU PHY 131 Univ Phys II: Elec Mag 1 F, S, SU PHY 132 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
	4	3	3	4	3			
Term 6	CEE 321 Stuc Anal	CON 453 CPM 1	IEE 380 Prob & Stats	HU/SB Elective			4 F, S, SU CHM 114 General Chemistry	1 year high school chemistry
	4	3	3	3				
Summer	CON 484 Internship							
	1							
Term 7	CON 455 Proj Mgt II	Dsgn Elect 420/421/452	Tech Elect	CON 495 Plan/Sched				
	3	3	4	3				
Term 8	Dsgn Elect 420/421/452	CNE 496 CC Admin	CNE 400 Earth Syst	CNE 486 Int Design				
	3	3	3	4				

**DESIGN ELECTIVES**

3 F CEE 420 Steel Structures CEE 321

3 S CEE 421 Concrete Structures CEE 321

3 F, S CEE 452 Foundations CEE 351

4 F, S, SU EEE 202 Circuits MAT 274

4 F, S, SU MAE 240 Thermofluids I CEE 212

3 F, S, SU IEE 380 Prob Stats Engr Prob Solv MAT 266 or Mat 271

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 w/grade of "C" or better

3 F, S, SU MAT 267 Calc Analyt Geom III MAT 266 w/grade of "C" or better

3 F, S, SU MAT 275 Elem Diff Equns MAT 267

3 F, S, SU MAT 242 Elem Linear Algebra MAT 265 or MAT 270

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

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

**Basic Scienc Elective (3 hours)**

GLG 101 recommended

**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)

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

General Studies 15 hrs 5 total classes)

HU CEE 400

HU CON 101

SB ECN

SB

UD CEE 400

C

G CON 101

**TOTAL 120**

Construction Engineering Flow Chart 13-14

H CEE 400

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

Revised 10/13/11