

# Construction Engineering Flow Chart 2016-2017

	Semester		Course	Semester	Course	Title	Pre-Requisites			
	Hours	Hours	Hours	Offered	Number					
<b>Term 1</b>	CHM 114	FSE 100	ENG 101	MAT 265	HU/SB	ASU 101-CEE				
	Gen Chem	Intro to CE	Fr Comp	Calc I	Elective	ASU Exp				
	4	2	3	3	3	1	16			
	<b>Term 2</b>	MAT 242	ENG 102	MAT 266	PHY121/122	CON 101				
		Lin Alg	Fr Comp	Calc II	Physics I	Con & Culture				
2		3	3	3+1	3		15			
<b>Term 3</b>		CNE 210	MAT 267	PHY131/132	MAT 275	ECN				
		Statics	Calc III	Physics II	Mod Diff O	211/212/201				
	3	3	3+1	3	3		16			
	<b>Term 4</b>	CNE 243	CNE 212	CNE 213	Basic	CNE 271				
		Hvy Con Equip	Dynamics	Def. Solids	Science	Con Safety				
3		3	3	3	3		15			
<b>Term 5</b>		IEE 380	MAE 240 or	CNE 353	CNE 321	<b>DESIGN ELECTIVES</b> 3 F CEE 420 Steel Structures CNE 321 3 S CEE 421 Concrete Structures CNE 321 3 F, S, SU CEE 452 Foundations CNE 351 4 F, S, SU EEE 202 Circuits I MAT 275, PHY 131 4 F, S, SU MAE 240 Thermofluids I CNE 212 3 F, S, SU IEE 380 Prob Stats Engr Prob Solving MAT 266 3 F, S, SU MAT 242 Elementary Linear Algebra MAT 265 3 F, S, SU MAT 265 Calculus for Engineers I MAT 170 or equiv 3 F, S, SU MAT 266 Calculus for Engineers II MAT 265 3 F, S, SU MAT 267 Calculus for Engineers III MAT 266 3 F, S, SU MAT 275 Modern Differential Equations MAT 266				
		Prob/Stats	EEE 202	CE Mat	Struct Analys					
	3	4	4	4						
	<b>Term 6</b>	CNE 351	CNE 241	CNE 383	CNE 400					
		Geo Eng	Surveying	Con Est	Earth Sys					
4		3	4	3		14				
<b>Summer</b>		CNE 484								
		Internship								
	1						1			
	<b>Term 7</b>	CNE 453	Design Elect	Tech	CNE 495	HU/SB				
		Proj Mgt I	420/421/452	Elective	Plan/Sched	Elective				
3		3	3	3	3		15			
<b>Term 8</b>		Design Elect	CNE 496	CNE 455	CNE 486	4 F, S, SU CHM 114 General Chemistry 1 year high school chemistry  <b>Recommended Basic Science:</b> GI G 101, CON 106 <b>Technical Electives</b> CON 310, CON 345, CEE 372 (4 hours) CEE 281, 412, 420, 421, 423, 440, 441, 452, 462, 466, 467, 474, 475, 483 (3 hours) CON 345, 405, 445, 448, 457, 494 Sustainable Construction (3 hours) CON 296 Internship, CEE 494 Concrete Canoe, CEE 494 Steel Bridge (1 hour)				
		420/421/452	Contract Admin	Proj Mgt II	Int Design					
	3	3	3	4						
	13									
	<b>TOTAL: 0</b>									

**General Studies - 15 hours (5 classes)**

HU	CNE 400
HU	CON 101
SB	ECN
SB	
UD	CNE 400
C	
G	CON 101
H	CNE 400

**Notes**

F-Fall, S-Spring, SU-Summer  
 All pre-reqs require a "C" minimum, unless otherwise specified  
 Technical and design electives can be replaced by independent study CEE 499 or 500-level courses for seniors with a GPA of 3.0 or better and an approved petition