

## Environmental Engineering 2017-2018

Term 1	CHM 113 Gen Chem	FSE 100 Intro to EVE	ENG 101 Fr Comp	MAT 265 Calc I	HU & G Elective	ASU 101-CEE ASU Exp	
	4	2	3	3	3	1	16

Term 2	MAT 242 Lin Alg	ENG 102 Fr Comp	MAT 266 Calc II	CHM 116 Gen Chem II	CEE 181 Tech/Soc/Sust		
	2	3	3	4	3		15

Term 3	ECN 211 or 212	EVE 261 Intro Envr Proc	MAT 275 Mod Diff Q	PHY121 & 122 Physics I	SB & C Elective		
	3	3	3	3+1	3		16

Term 4	CHE 211 Intro Chem Proc	Basic Sci Elective	MAT 267 Calc III	EVE 214 Envr Mech	EVE 302 Envr Proc I		
	3	3	3	3	3		15

Term 5	CEE 384 Num Meth	EVE 303 Envr Proc II	CEE 300 Eng Bus	CEE 213 Defom Solids	IEE 380 Prob/Stats		
	3	3	3	3	3		15

Term 6	EVE 304 Envr Proc Lab	CEE 341 Fluid Mech	CEE 351 Geo Eng	CEE 353 Civ Eng Mat			
	2	4	4	4			14

EVE 484 Practicum	1						1
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Term 7	Tech Elec	CEE 440 Hydro	Tech Elec	CEE 467 Env Micro	CEE 462 Unit Op		
	3	3	3	3	3		15

Term 8	CEE 400 Erth Sys	CEE 441 Water Res	ERM 401 Has Waste	CEE 486 Int Design			
	3	3	3	4			

General Studies - 15 hours (5 classes)

TOTAL:  $\frac{13}{120}$

Course Hours	Semester Offered	Course Number	Title	Pre-Requisites
2	F, S	FSE 100	Intro EVE Engineering	EVE student
3	F, S	CEE 181	Tech, Social & Sustain Syst	none
3	F,S, SU	CEE 213	Intro to Deform Solids	EVE 214, MAT 274
4	F, S, SU	CEE 300	Business Practices	Junior/Senior, MAT 267
4	F, S	CEE 341	Fluid Mechanics	CEE 212 and CEE 213 or EVE 214, pre/co-req CEE 384
4	F, S, SU	CEE 351	Geotechnical Engineering	CEE 213
4	F, S, SU	CEE 353	Civil Engineering Materials	CEE 213
3	F, S	CEE 384	Numerical Methods	MAT 242, MAT 275, pre/co-req MAT 267
3	F, S	CEE 400	Earth Systems Eng Mgt	CEE 300
3	S	CEE 401	Sust Energy, Mat &Tech	Phy 121/122, MAE 384
3	F	CEE 440	Hydrology	CEE 341 or MAE 340
3	S	CEE 441	Water Resource Engineering	CEE 341
3	F, S	CEE 462	Unit Operations	EVE 302
3	F	CEE 466	Urban Water	CEE 341, CEE 361 or EVE 261
3	S	CEE 467	Environmental Microbiology	EVE 303
4	F, S	CEE 486	Senior Design	Last Semester
3	F, S	CHE 211	Intro to Chem Processing	CHM 116, MAT 266
3	F	CHE 469	Air Quality Engineering	CEE 361 or EVE 261
3	F	EVE 214	Envr Engin Mechanics	MAT 266, PHY 121/122
3	F	EVE 261	Intro Envr Processes	CHM 116
3	S	EVE 302	Envr Process I	EVE 261
3	F	EVE 303	Envr Process II	EVE 261
2	S	EVE 304	Envr Process Lab	EVE 302, 303
3	Su	EVE 484	Environmental Practicum	Jr or Sr in EVE
3	S	ERM 401	Hazardous Waste Mgt	CHM 113
3	F, S, SU	IEE 380	Prob Stats Eng 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
3	F, S, SU	PHY 121	Univ Physics I: Mechanics	MAT 265, pre/co-req MAT 266
1	F, S, SU	PHY 122	Univ Physics Lab I	pre/co-req PHY 121
4	F, S, SU	CHM 113	General Chemistry I	1 year high school chemistry, pre/co-req MAT 265
4	F, S, SU	CHM 116	General Chemistry II	CMH 113

### TECHNICAL ELECTIVES

CEE 281, 372, 412, 466, 485, CHE 231, 469, BIO 320, BCH 361, CHM 302, 341, PUP 301, 442, 465

**Recommended Basic Science:** CHM 231, BIO 181, BIO 182, GLG 101, SES 121

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

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

### Notes

F-Fall, S-Spring, SU-Summer

All pre-regs require a "C" minimum, unless otherwise specified

  Critical courses used for transfer students

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

HU	
HU	CEE 181
SB	ECN
SB	
UD	CEE 400
C	
G	
H	CEE 400