

## Environmental Engineering Technical Electives

	Catalog Year Su16 Forward
Construction Methods (3)*	CCE 4004
Estimating & Scheduling (3)	CCE 4034
Equipment & Productivity (3)	CCE 4402
Construction Design (3)*	CCE 4810C
Mechanical & Elect Systems (3)	CCE 4813
Geotech II (3)	CEG 4012
Geotech Methods (3)*	CEG 4203
Geotech Design (3)*	CEG 4801C
Structural Analysis (4)*	CES 4100C
Structural Mechanics (3)	CES 4205
Steel Structures (3)	CES 4605
Concrete Structures (3)	CES 4702
Structural Design (3)	CES 4743C
Numerical Methods for CE (3)	CGN 3405
CE Materials (3)	CGN 3501C
CE Measurements (2)	CGN 3700C
Intro to Smart Cities (3)*	CGN 4309
Hydrology (3)	CWR 4120
Hydrogeology (3)	CWR 4124
Water Resources Design (3)	CWR 4812C
Air Pollution Design (3)*	ENV 4122C
Wastewater Design (3)*	ENV 4433C
Water Treatment Design (3)*	ENV 4562C
Transp Engrg Systems (3)	TTE 4274
Transp Analytics (3)	TTE 4300
Urban Systems Design (3)	TTE 4601C
Biochemistry I (3)*	BCH 4053
Biochemistry II(3)*	BCH 4054
Intro to Organic & Biochemistry (5)	CHM 2205
Organic Chemistry I (3)	CHM 2210
Organic Chemistry II (3)	CHM 2211
Analytical Chemistry (3)*	CHM 3120
Physical Chemistry I (4)*	CHM 3410
Physical Chemistry II (3)*	CHM 3411
Advanced Analytical Lab Tech (3)*	CHM 4130
Environmental Chemistry (3)	CHS 4615
Intro to Programming with C (3)*	COP *223
Object Oriented Programming (3)*	COP *330

	Catalog Year Su16 Forward
Principles of Electrical Engineering (3)	EGN 3373
Modeling Methods in MAE(3)*	EML 3034C
Adv GIS Applications in Env Studies (4)*	GIS 4301
Advanced Calculus I (4)*	MAA 4226
Advanced Calculus II (3)*	MAA 4402
Introduction to Graph Theory (3)*	MAD 4301
Mathematical Modeling I (3)*	MAP 4103
Prob, Random Proc & Appl (3)*	MAP 4113
Vector and Tensor Analysis (3)*	MAP 4153
Optimization (3)*	MAP 4171
Ordinary Differential Equatons II (3)*	MAP 4303
Intro to Partial Dif Eq (3)*	MAP 4341
Intro to Partial Dif Eq II (3)*	MAP 4342
Numerical Methods for Dif Eq (3)*	MAP 4371
Numerical Methods for Comp Sci (3)*	MAP 4384
Matrix and Linear Algebra (4)	MAS 3105
Linear Algebra (4)*	MAS 3106
Intro to Number Theory (3)	MAS 3203
General Microbiology (5)*	MCB 3020
Microbial Metabolism (3)*	MCB 4414
Environmental Microbiology (3)*	MCB 4603
Logic and Proof in Mathematics (3)	MHF 3302
Issues in Env Program Mgmt (3)**	PAD 4351
Info Systems Public Mgrs & Plnrs (3)**	PAD 4712
Principles of Ecology (3)*	PCB 3044
Environmental Ethics (3)	PHI 3640
General Physics III (3)	PHY 3101
Environmental Law	PLA 4554
Environmental Politics (3)	PUP 3203
Sustainability (3)	PUP 3204
Urban Environmental Policy (3)	PUP 4209
Statistical Methods II (3)	STA 4163
Statistical Theory I (3)	STA 4321
Nonparametric Stat Methods (3)*	STA 4502

**\*Additional prerequisites required**

**\*PAD courses require an override from Public Administration dept.**

CCE 5000 level courses (by override only) (min GPA req'd)*	CCE 5006, CCE 5205, CCE 5220, CEG 5405, CES 5144, CES 5325, CES 5606, CES 5706, CES 5821, CGN 5340, CGN 5341, CGN 5506, CGN 5617, CGN 5877, CWR 5125, CWR 5205, CWR 5515, CWR 5545, CWR 5634, CWR 5999, EES 5318, ENV 5410, ENV 5505, ENV 5517, ENV 5636, TTE 5204, TTE 5531, TTE 5805, TTE 5835
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