

Environmental Engineering Technical Electives

Catalog Year Fall 2024 Forward

Column 1: Course Name	Column 2: Course Number	Column 3: Course Name	Column 4: Course Number
Construction Methods (3)*	CCE 4004	Object Oriented Programming (3)*	COP *330
Estimating & Scheduling (3)	CCE 4034	Principles of Electrical Engineering (3)	EGN 3373
Equipment & Productivity (3)	CCE 4402	Entrepreneurship for Defense (3)	EGN 4630
Construction Design (3)*	CCE 4810C	Modeling Methods in MAE(3)*	EML 3034C
Mechanical & Elect Systems (3)	CCE 4813	Adv GIS Applications in Env Studies (4)*	GIS 4301
Geotech II (3)	CEG 4012	Advanced Calculus I (4)*	MAA 4226
Geotech Methods (3)*	CEG 4203	Introduction Complex Variables (3)*	MAA 4402
Geotech Design (3)*	CEG 4801C	Introduction to Graph Theory (3)*	MAD 4301
Structural Analysis (3)*	CES 4100C	Mathematical Modeling I (3)*	MAP 4103
Structural Mechanics (3)	CES 4205	Prob, Random Proc & Appl (3)*	MAP 4113
Steel Structures (3)	CES 4605	Vector and Tensor Analysis (3)*	MAP 4153
Concrete Structures (3)	CES 4702	Optimization (3)*	MAP 4171
Structural Design (3)	CES 4743C	Ordinary Differential Equations II (3)*	MAP 4303
Numerical Methods for CE (3)	CGN 3405	Intro to Partial Dif Eq (3)*	MAP 4341
CE Materials (3)	CGN 3501C	Intro to Partial Dif Eq II (3)*	MAP 4342
CE Measurements (2)	CGN 3700C	Numerical Methods for Dif Eq (3)*	MAP 4371
Forensic Investigation for Engineers	CGN 4120	Numerical Methods for Comp Sci (3)*	MAP 4384
Intro to Smart Cities (3)*	CGN 4309	Matrix and Linear Algebra (4)	MAS 3105
Hydrology (3)	CWR 4120	Linear Algebra (4)*	MAS 3106
Hydrogeology (3)	CWR 4124	Intro to Number Theory (3)	MAS 3203
Water Resources Design (3)	CWR 4812C	General Microbiology (5)*	MCB 3020
Air Pollution Design (3)*	ENV 4122C	Microbial Metabolism (3)*	MCB 4414
Wastewater Design (3)*	ENV 4433C	Environmental Microbiology (3)*	MCB 4603
Water Treatment Design (3)*	ENV 4562C	Logic and Proof in Mathematics (3)	MHF 3302
Transp Energy Systems (3)	TTE 4274	Issues in Env Program Mgmt (3)	PAD 4351

Transp Analytics (3)	TTE 4300	Info Systems Public Mgrs & Plnrs (3)	PAD 4712
Urban Systems Design (3)	TTE 4601C	Principles of Ecology (3)*	PCB 3044
Biochemistry I (3)*	BCH 4053	Environmental Ethics (3)	PHI 3640
Biochemistry II(3)*	BCH 4054	General Physics III (3)	PHY 3101
Intro to Organic & Biochemistry (5)	CHM 2205	Environmental Law	PLA 4554
Organic Chemistry I (3)	CHM 2210	Environmental Politics (3)	PUP 3203
Organic Chemistry II (3)	CHM 2211	Sustainability (3)	PUP 3204
Analytical Chemistry (3)*	CHM 3120	Urban Environmental Policy (3)	PUP 4209
Physical Chemistry I (4)*	CHM 3410	Statistical Methods II (3)	STA 4163
Physical Chemistry II (3)*	CHM 3411	Statistical Theory I (3)	STA 4321
Advanced Analytical Lab Tech (3)*	CHM 4130	Nonparametric Stat Methods (3)*	STA 4502
Environmental Chemistry (3)	CHS 4615	Engineering Analysis - Dynamics (3)	EGN 3321
Intro to Programming with C (3)*	COP *223	*Additional prerequisites required	

CECE 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