

Environmental Engineering Technical Electives

Catalog Year Summer 2016 to Summer 2024

Column 1: Course Name	Column 2: Course Number	Column 3: Course Name	Column 4: Course Number
Construction Methods (3)*	CCE 4004	Environmental Chemistry (3)	CHS 4615
Estimating & Scheduling (3)	CCE 4034	Intro to Programming with C (3)*	COP *223
Equipment & Productivity (3)	CCE 4402	Object Oriented Programming (3)*	COP *330
Construction Design (3)*	CCE 4810C	Principles of Electrical Engineering (3)	EGN 3373
Mechanical & Elect Systems (3)	CCE 4813	Entrepreneurship for Defense (3)	EGN 4630
Geotech II (3)	CEG 4012	Modeling Methods in MAE(3)*	EML 3034C
Geotech Methods (3)*	CEG 4203	Adv GIS Applications in Env Studies (4)*	GIS 4301
Geotech Design (3)*	CEG 4801C	Advanced Calculus I (4)*	MAA 4226
Structural Analysis (3)*	CES 4100C	Introduction Complex Variables (3)*	MAA 4402
Structural Mechanics (3)	CES 4205	Introduction to Graph Theory (3)*	MAD 4301
Steel Structures (3)	CES 4605	Mathematical Modeling I (3)*	MAP 4103
Concrete Structures (3)	CES 4702	Prob, Random Proc & Appl (3)*	MAP 4113
Structural Design (3)	CES 4743C	Vector and Tensor Analysis (3)*	MAP 4153
Engineering Reports & Liability (2)*	CGN 3090	Optimization (3)*	MAP 4171
Numerical Methods for CE (3)	CGN 3405	Ordinary Differential Equations II (3)*	MAP 4303
CE Materials (3)	CGN 3501C	Intro to Partial Dif Eq (3)*	MAP 4341
CE Measurements (2)	CGN 3700C	Intro to Partial Dif Eq II (3)*	MAP 4342
Forensic Investigation for Eng (3)*	CGN 4120	Numerical Methods for Dif Eq (3)*	MAP 4371
Intro to Smart Cities (3)*	CGN 4309	Numerical Methods for Comp Sci (3)*	MAP 4384
Hydrology (3)	CWR 4120	Matrix and Linear Algebra (4)	MAS 3105
Hydrogeology (3)	CWR 4124	Linear Algebra (4)*	MAS 3106
Water Resources Design (3)	CWR 4812C	Intro to Number Theory (3)	MAS 3203
Fate & Transport of Contaminants (2)	EES 4421	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 Engrg 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	*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