

Construction Engineering Technical Electives

	Catalog Year Su16 Forward
Geotech II (3)	CEG 4012
Geotech Methods (3)*	CEG 4203
Geotech Design (3)*	CEG 4801C
Structural Mechanics (3)	CES 4205
Steel Structures (3)	CES 4605
Concrete Structures (3)	CES 4702
Structural Design (3)	CES 4743C
Intro to Smart Cities (3)	CGN 4309
Hydrology (3)	CWR 4120
Hydrogeology (3)	CWR 4124
Water Resources Design (3)	CWR 4812C
Biological Process Control (4)	EES 4111C
Chemical Process Control (4)	EES 4202C
Air Poll & Haz Waste Control (3)	ENV 4120
Air Pollution Design (3)*	ENV 4122C
Sustainable Res Mgmt (3)	ENV 4341
Wastewater Design (3)*	ENV 4433C
Env Eng Ops & Processes (3)	ENV 4531
Adv Eng Ops & Processes (3)*	ENV 4561
Water Treatment Design (3)*	ENV 4562C
Highway Engineering (3)	TTE 3810
Transp Engrg Systems (3)	TTE 4274
Transp Analytics (3)	TTE 4300
Urban Systems Design (3)	TTE 4601C
Intro to Programming with C (3)*	COP *223
Thermodynamics (3)	EGN 3343
Principles of Electrical Engineering (3)	EGN 3373

	Catalog Year Su16 Forward
Fund of Mech Behavior Materials (3)*	EMA 4223
HVAC Systems Engineering (3)*	EML 4600
Applied HVAC Engineering (3)	EML 4602
Advanced Calculus I (4)*	MAA 4226
Advanced Calculus II (3)*	MAA 4402
Introduction to Graph Theory (3)*	MAD 4301
Management of Organizations (3)**	MAN 3025
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
Logic and Proof in Mathematics (3)	MHF 3302
Urban and Regional Planning (3)**	PAD 3330
Public Sector Project Mgmt (3)	PAD 4131
Land Use and Planning (3)**	PAD 4331

***Additional prerequisites required**

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

<p>CCE 5000 level courses (by override only) (min GPA req'd)*</p>	<p>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</p>
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