

Student outcomes and course matrix

Course Number	Course Description	Criteria (a)	Criteria (b)	Criteria (c)	Criteria (d)	Criteria (e)	Criteria (f)	Criteria (g)	Criteria (h)	Criteria (i)	Criteria (j)	Criteria (k)	Course Total
CEE 120	Civil Engineering in a Sustainable Society				X		O	O	X		X	O	3
CEE 204	Introduction to Environmental Engineering	X		X		X			X		X		5
CEE 241	Statics	X				X							2
CEE 303	Computer Tools for Civil and Environmental Engineer	X										X	2
CEE 305	Computer-assisted Problem Solving												0
CEE 362	Transportation Engineering	X	X		X	X						X	5
CEE 364	Engineering Hydrology	X		X		X						X	4
CEE 371	Numerical Methods in Civil Engineering	X			O			O		O		X	2
CEE 372	Mechanics of Solids	X		O		X		O					2
CEE 377	Construction Materials Engineering and Testing	X	X	X		X						X	5
CEE 381	Structural Analysis	X										X	2
CEE 388	Engineering Economy	X	X			X			X			X	5
CEE 389	Probability and Statistics for Civil Engineers	X	X			X						O	3
CEE 390	Fundamentals of Environmental Engineering	X		X		X					O	X	4
CEE 404	Open Channel Flow	O		X		X						X	3
CEE 411	Environmental Law						X	X	X		X		4
CEE 413	Water Resources Engineering	O	X	X	X	X		O	X		X	O	6
CEE 414	Water Resources Engineering II	O		X		X		X	X		X	X	6
CEE 417	Quantitative Water Quality Analysis	O	X		X			X			O		3
CEE 418	Principles of Water Quality Modeling	O				X						X	2
CEE 420	Advanced Portland Cement Concrete	O		X		X						X	3
CEE 426	Project Management Principles				X	X	X	X	X	X	X		7
CEE 427	Capstone Design Project			X	X		X	X	X	X	X	X	8
CEE 428	Urban Engineering			X		X		X			X	X	5
CEE 431	Pavement Analysis and Design	O		X		X						X	3
CEE 442	Fundamentals of Geotechnical Engineering	X	X									X	3
CEE 443	Foundation Engineering Design	O	X			X	X	X		X	X		6
CEE 445	Retaining Structures Design	O	X	X		X					X		4
CEE 446	Geosynthetics	O	X	X		X	X	X		X	X	X	8
CEE 453	Environmental Microbiology	O				X		X			X		3
CEE 456	Design of Water Treatment Facilities	O		X	X	X	X	X	X		O	O	6
CEE 457	Design of Wastewater Treatment and Reuse System	O		X	X		X	X	O	X	O	O	5
CEE 458	Environmental Chemistry Concepts and Design					X			X			X	3
CEE 459	Hazardous and Solid Waste Management and Contr	O		X		O						X	2
CEE 460	Construction Engineering				X	X	X				X	X	5
CEE 463	Traffic Operations	O	X	X	X	X	X	X	X	X	X	X	10
CEE 465	Intelligent Transportation Systems		X		X							X	3
CEE 469	Geometric Design of Transportation Systems	O	X	X		X	X	X	X		X	X	8
CEE 479	Earthquake Engineering (also GE 479)	O	X		X	X		X	X	X	X	X	8
CEE 480	Structural Reinforced Concrete Design I	O		X		X	X					X	4
CEE 481	Structural Steel Design	O		X		X	X	X				X	5
CEE 482	Design of Timber Structures	O		X				X				X	3
CEE 483	Prestressed Concrete Design	O		X		X	X			X		X	5
CEE 484	Bridge Engineering I	O		X			X	X				X	4
CEE 486	Computational Structural Analysis	O				X						X	2
CEE 487	Structural Concrete Design II	O		X		X	X			O	O	X	4
CEE 488	Advanced Structural Steel Design	O		X			X	X				X	4
ENGR 100	Introduction to Civil Engineering			X	X								2
ENGR 301	Engineering Communications				X			X					2
ENGR 360	Intro to Fluid Mechanics	X				X							2
NRES 414	Hydrologic Fluid Dynamics	X				X							2

Total by Outcome:

15 14 26 14 34 16 19 13 8 16