

Course No.	Course Title	F 21	Sp 22	Su 22	F 22	Sp 23	Su 23	F 23	Sp 24	Su 24	F 24	Sp 25	Su 25	F 25	Sp 26	Su 26
<b>CEE Course Offer - 5 year plan</b>		<b>updated: 04/02/2021</b>														
CEE 111	Information Literacy & Research		X			X			X			X			X	
CEE 204	Statics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CEE 205	Engineering Dynamics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CEE 219	Surveying for Engineers	X	X		X	X		X	X		X	X		X	X	
CEE 220	Mechanics of Deformable Bodies	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CEE 240	Geographic Information Systems in Civil & Environmental Engineering		X	X		X	X		X	X		X	X		X	X
CEE 304	Probability, Statistics & Risk in CE	X	X		X	X		X	X		X	X		X	X	
CEE 305	Civil & Environmental Engineering Computation	X	X		X	X		X	X		X	X		X	X	
CEE 310	Structures I	X	X		X	X		X	X		X	X		X	X	
CEE 320	Civil Engineering Materials	X	X		X	X		X	X		X	X		X	X	
CEE 323	Soil Mechanics	X	X		X	X		X	X		X	X		X	X	
CEE 324	Soils Lab	X	X		X	X		X	X		X	X		X	X	
CEE 330	Hydromechanics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CEE 340	Hydraulics & Water Resources	X	X		X	X		X	X		X	X		X	X	
CEE 341	Hydraulic Lab	X	X		X	X		X	X		X	X		X	X	
CEE 350	Environmental Pollution & Control	X	X		X	X		X	X		X	X		X	X	
CEE 370	Transportation Fundamentals	X	X		X	X		X	X		X	X		X	X	
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CEE 401	Civil Engineering Design Project and Professional Practice I	X	X		X	X		X	X		X	X		X	X	
CEE 402	Civil & Environmental Engineering Seminar	X	X		X	X		X	X		X	X		X	X	
CEE 403	Civil Engineering Design Project	X	X		X	X		X	X		X	X		X	X	
CEE 410	Concrete Design	X	X		X	X		X	X		X	X		X	X	
CEE 451	Water & Wastewater Treatment		X			X			X			X			X	
CEE 412/512	Computational Method in Structures		X			X			X			X			X	
CEE 414/514	Masonry Structures Design			X									X			
CEE 415/515	Steel Structures Design	X			X			X			X			X		
CEE 416/516	Wood Structures Design						X									X
CEE 430/530	Foundation Engineering	X	X		X	X		X	X		X	X		X	X	
CEE 431/531	Earth Structures Design with Geosynthetics		X						X						X	
CEE 432/532	Introduction to Earthquake Engineering					X						X				
CEE 433/533	Geomaterilas Stabilization	X						X						X		
CEE 440/540	Hydraulic Engineering			X						X						X
CEE 446/546	Urban Stormwater Hydrology		X						X						X	
CEE 447/547	Groundwater Hydraulics	X						X						X		
CEE 452/552@	Air Quality		X			X			X			X			X	
CEE 454/554@	Hazardous Waste Treatment	X			X			X			X			X		
CEE 455/555@	Pollution Prevention and Green Engineering			X			X			X			X			X
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CEE 458/558@	Sustainable Development	X			X			X			X			X		
CEE 459/559	Biofuels Engineering		X			X			X			X			X	
CEE 471/571	Transportation Operations I		X			X			X			X			X	
CEE 475/575	Geometry Design of Roads			X			X			X			X			X
CEE 482/582@	Introduction to Coastal Engineering		X			X			X			X			X	
CEE 700/800@	Civil and Environmental Engineering Experimental Design		X			X			X			X			X	
CEE 701/801	Applied Mathematics for Civil & Env. Engineers	X			X			X			X			X		
CEE 710/810	Structural Dynamics		X			X			X			X			X	
CEE 711/811@	Finite Element Analysis	X			X			X			X			X		
CEE 712/812	Advanced Reinforced Concrete						X						X			
CEE 713/813	Prestressed Concrete									X						
CEE 714/814	Advanced Structural Analysis	X						X						X		
CEE 715/815@	Engineering Optimization I		X			X			X			X			X	
CEE 717/817	Bridge Structures Design				X						X					
CEE 718/818	Flood Resistant Structural Design									X						
CEE 719/819	Inelastic Structures		X						X						X	
CEE 720/820	Structural Stability					X						X				
CEE 721/821	Plates			X									X			
CEE 722/822@	Cluster Parallel Computing			X			X			X			X			X
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CEE 723/823	Seismic Design of Steel Structures				X						X					
CEE 724/824	Retrofitting Methods for Bridges and Buildings						X									X
CEE 725/825	Smart Structures	X						X						X		
CEE 730/830	Advanced Foundation Engineering				X						X					
CEE 731/831	Advanced Soil Mechanics					X						X				
CEE 732/832	Engineering Behavior of Soils				X						X					
CEE 733/833	Soil Dynamics	X						X						X		
CEE 741/841	Open Channel Flow				X						X					
CEE 747/847	Groundwater Flow					X						X				
CEE 751/851@	Physicochemical Treatment Processes	X			X			X			X			X		
CEE 752/852@	Biological Wastewater Treatment		X			X			X			X			X	
CEE 755/855@	Water Quality Management		X			X			X			X			X	
CEE 756/856@	Water Quality Modeling	X			X			X			X			X		
CEE 759/859	Carbon-Free Clean Energy				X						X					
CEE 760/860	Managing Phosphorous in Circular Economy	X						X						X		
CEE 761/861	Water Resources Processes and Analysis Methods	X						X						X		
CEE 762/862@	Aquatic Chemistry in Environmental Engineering		X			X			X			X			X	
CEE 770/870	Transportation Safety					X						X				
CEE 771/871	Transportation Operations II				X						X					
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CEE 772/872	Intelligent Transportation Systems	X						X						X		
CEE 773/873	Transportation Planning		X						X						X	
CEE 774/874	Transportation Network Flow Models		X						X						X	
CEE 776/876	Transportation Modeling and Simulation					X						X				
CEE 777/877	Discrete Choice Theory and Modeling in Transportation				X						X					
CEE 782/882@	Design of Coastal Structures	X			X			X			X			X		
CEE 787/887@	Dredging and Beach Engineering					X						X				
CEE 788/888@	Coastal Hydrodynamics and Sediment Processes	X			X			X			X			X		
CEE 789/889	Computational Environmental Fluid Dynamics		X						X						X	

@ in distant learning mode

Chose 4 from 5	Env. Engr. <b>Core Courses</b>
	Coastal Engineering Certificate courses