

	Fall'16	Spring'17	Fall'17	Spring'18	Fall'18	Spring'19	Fall'19	Spring'20	Fall'20	Spring'21
Technical Electives/Graduate Courses										
Engineering Mechanics										
CE/EM 502 Introductory Finite Element Method (3)	1		1		1		1		1	
EM 504 Elasticity Theory and Application (3)				1				1		
EM 508 Fracture Mechanics (3)	1				1				1	
EM 511 Advance Finite Element Analysis (3)										
EM 605 Mechanical Behavior of Materials II - Special Topics (3)		1				1		1		
EM 606 Wave Propagation in Solids (3)			1				1			
Geotechnical										
CE 540 Foundation Engineering (3)		1		1		1		1		1
CE 541 Earth Structures in Geotechnical Engineering (3)	1		1		1		1		1	
CE 542 Ground Improvement (3)				1				1		
CE 544 Special Topics in Geomechanics (3)		1							1	
CE 545 Geoenvironmental Engineering (3)		1				1				1
CE 546 Geotechnical Earthquake Engineering (3)					1					
CE 548 Numerical Methods in Geotechnical Engineering (3)	1						1			
Hydraulics										
CE 522 Open-Channel Flow (3)	1			1			1			1
CE 523 Hydrology (3)		1		1		1		1		1
CE 527 Computer Applications in Hydraulics (3)	1		1		1		1		1	
CE 529 Special Topics in Hydraulics and Water Resources Engineering (3)			1			1			1	
CE 549 (HWR) - Statistical Hydrology	1		1		1		1		1	
CE 622 Sedimentation Engineering		1			1			1		
CE 655 (HWR) Stochastic Methods in Surface Hydrology (3)										
Structures										
CE 510 Probability in Civil Engineering (3)	1				1		1		1	
CE 532 Advanced Structural Design in Steel (3)	1		1		1					
CE 534 Design of Wood and Masonry Structures (3)		1		1		1		1		1
CE 535 Prestressed Concrete Structures (3)				1			1			1
CE 537 Advanced Structural Design in Concrete (3)		1		1		1		1		1
CE 538 Behavior and Design of Structural Systems (3)			1			1			1	
CE 632 Infrastructure Rehabilitation (3)	1									
CE 633 Reinforced Concrete (3)										
CE 638 Advance Structural Stability (3)		1						1		
EM 633 Structural Dynamics and Earthquake Engineering (3)		1				1				
EM 634 Advanced Structural Dynamics (3)			1				1			
Transportation										
CE 560 Special Topics in Transportation Engineering (3)	1		1		1				1	
CE 563 Traffic Flow and Capacity Analysis (3)		1		1						1
CE 565 Transportation Data Management and Analysis (3)		1		1						1
CE 566 Highway Geometric Design (3)	1		1		1				1	
CE 569 Travel Demand Modeling (3)	1		1		1				1	
CE 663 Advanced Traffic Modeling and Analysis (3)										
CE 568 (PLNN) Urban Transportation Planning (3)										
Multi-disciplinary Courses										
CE 564A Integrated Highway Bridge Design w/LRFD Method (3)	1		1		1		1		1	

Parenthesis indicates home department