MASTER OF SCIENCE IN CIVIL ENGINEERING STRUCTURES/GEOTECHNICAL/TRANSPORTATION OPTIONS

I.	Core course CE 5310 - CE 5311 -	s required in either specialty program (6 hrs): Numerical Methods in Engineering Advanced Mechanics of Solids	
II.	Core courses required in geotechnical program (3 hrs): CE 5321 - Advanced Soil Engineering		
	CE 3321 -	Advanced Son Engineering	
III.	Electives in structures, geotechnical and transportation options:		
	CE 5313 -	Theory of Elastic Stability	
	CE 5314 -	Theory of Plates and Shells	
	CE 5316 -	Theory of Elasticity	
	CE 5318 -	Finite Element Methods in Continuum Mechanics	
	CE 5321 -	Advanced Soil Engineering I	
	CE 5323 -	Advanced Foundation Engineering	
	CE 5324 -	Foundation Structures	
	CE 5325 -	Soil-Structure Interaction	
	CE 5326 -	Analysis and Design of Earth Structures	
	CE 5327 -	Geotechnical Practice for Waste Disposal	
	CE 5340 -	Advanced Structural Analysis I	
	CE 5341 -	Advanced Structural Analysis II	
	CE 5342 -	Advanced Design of Steel Structures	
	CE 5343 -	Advanced Reinforced Concrete Design	
	CE 5346 -	Structural Dynamics I	
	CE 5347 -	Structural Dynamics II	
	CE 5348 -	Wind Engineering	
	CE 5351 -	Advanced Pavement Materials	
	CE 5352 -	Advanced Pavement Design	
	CE 5353 -	Pavement Management Systems	
	CE 5371 -	Advanced Geometric Design of Highways	
	CE 5372 -	Advanced Traffic Engineering I: Highway Capacity Analysis	
	CE 5373 -	Advanced Traffic Engineering II: Traffic Flow Theory and Control	
IV.	Research Courses:		
	CE 6000 -	Master's Thesis	
	CE 6330 -	Master's Report	
	CE 7000 -	Research	
v.	Program Rec	quirements:	

Courses Only Option	Thesis Option	Report Option
36 hrs - Course Work	24 hrs – Course Work	33 hrs - Course Work
	6 hrs – Thesis	3 hrs - Report
	30 hrs – Total	36 hrs – Total