

# STRUCTURAL ENGINEERING ELECTIVES COURSE LIST

Code	Title	Credit Hours
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List of MSCE electives maintained by the department and approved by the Graduate College.

CEES 4123	Open Channel Flow	
CEES 4243	Water Technologies for Emerging Regions	
CEES 4253	Statistics and Probability	
CEES 4263	Hazardous and Solid Waste Management	
CEES 4333	Foundation Engineering	
CEES 4453	Geomatics Engineering	
CEES 4753	Structural Design - Wood	
CEES 5010	Civil Engineering Problems	
CEES 5020	Special Topics in Civil Engineering	
CEES 5021	Technical Communications	
CEES 5114	Aquatic Chemistry	
CEES 5133	Water Sustainability	
CEES 5244	Physicochemical Water Treatment Processes	
CEES 5323	Geosynthetics	
CEES 5324	Environmental Biology and Ecology	
CEES 5353	Introduction to Soil Dynamics	
CEES 5363	Ecological Engineering Science	
CEES 5373	Water Resources Systems Modeling	
CEES 5383	Earthquake Engineering	
CEES 5413	Soil-Structure Interaction	
CEES 5443	Unsaturated Soil Mechanics	
CEES 5473	Forensic Geotechnical Engineering	
CEES 5503	Highway Engineering	
CEES 5513	Traffic Engineering	
CEES 5523	Transportation Asset Management	
CEES 5533	Multimodal Transportation	
CEES 5583	Water Law	
CEES 5623	Watershed Management and Restoration	
CEES 5624	Biological Waste Treatment	
CEES 5643	Quantitative Hydrometeorology	
CEES 5673	Colloid and Surface Science	
CEES 5693	Structural Design of Pavements	
CEES 5733	Hydroclimatology	
CEES 5813	Water Treatment, Reuse, and Health Impacts	
CEES 5833	Ground Water Quality Protection	
CEES 5843	Hydrology	
CEES 5853	Groundwater and Seepage	
CEES 5873	Water Quality Management	
CEES 5883	Environmental Modeling	
CEES 5933	Climate Change and Water Sustainability	
CEES 5960	Directed Readings	
CEES 5963	Water Security	
CEES 5970	Special Topics/Seminar	

CEES 5990	Independent Study	
AME 5763	Introduction to the Finite Element Method	
BIOL 5553	Wetlands Ecology	
C S 5743	Scientific Computing I	
ENGR 4013	Leadership and Management for Engineers	
ENGR 4223	Fundamentals of Project Management	
ENGR 4513	Introduction to Sustainable Engineering	
MATH 4753	Applied Statistical Methods	
MATH 5103	Mathematical Models	
MATH 5163	Partial Differential Equations	
MATH 5173	Advanced Numerical Analysis I	
MATH 5743	Introduction to Mathematical Statistics	
METR 5344	Computational Fluid Dynamics I	
METR 5633	Hydrometeorology	