

TRANSPORTATION ENGINEERING GRADUATE ELECTIVES

ACS 5313	Applied Database System Technologies	3
ACS 5513	Machine Learning Practice	3

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	3
CEES 4253	Statistics and Probability	3
CEES 4333	Foundation Engineering	3
CEES 4453	Geomatics Engineering	3
CEES 4753	Structural Design - Wood	3
CEES 5010	Civil Engineering Problems	1-4
CEES 5020	Special Topics in Civil Engineering	1-6
CEES 5021	Technical Communications	1
CEES 5323	Geosynthetics	3
CEES 5353	Introduction to Soil Dynamics	3
CEES 5373	Water Resources Systems Modeling	3
CEES 5383	Earthquake Engineering	3
CEES 5413	Soil-Structure Interaction	3
CEES 5443	Unsaturated Soil Mechanics	3
CEES 5473	Forensic Geotechnical Engineering	3
CEES 5503	Highway Engineering	3
CEES 5513	Traffic Engineering	3
CEES 5523	Transportation Asset Management	3
CEES 5533	Multimodal Transportation	3
CEES 5623	Watershed Management and Restoration	3
CEES 5693	Structural Design of Pavements	3
CEES 5873	Water Quality Management	3
CEES 5883	Environmental Modeling	3
CEES 5960	Directed Readings	1-3
CEES 5963	Water Security	3
CEES 5970	Special Topics/Seminar	1-3
CEES 5973	Fundamental Hydrology	3
CEES 5990	Independent Study	1-3
AME 5763	Introduction to the Finite Element Method	3
C S 5743	Scientific Computing I	3
ENGR 4013	Leadership and Management for Engineers	3
ENGR 4513	Introduction to Sustainable Engineering	3
ISE 5023	Systems Optimization	3
ISE 5643	Engineering Optimization	3
MATH 4753	Applied Statistical Methods	3
MATH 5103	Mathematical Models	3
MATH 5163	Partial Differential Equations	3
MATH 5173	Advanced Numerical Analysis I	3
MATH 5743	Introduction to Mathematical Statistics	3
METR 5344	Computational Fluid Dynamics I	4
METR 5633	Hydrometeorology	3
ACS 5113	Programming Principles	3
ACS 5213	Practical Data Structures and Algorithms	3