

MASTER OF SCIENCE IN CIVIL ENGINEERING TRANSPORTATION ENGINEERING

Required Courses (all options)

		Hours
CE 774	Pavement Design	3
CE 775	Traffic Engg.	3
CE 786	Land Devt for CEs and Plnrs	3

Option Electives

Students should choose at least one course from each of the following areas, or 9-12 hrs. in one option area. Other option electives may be selected with the approval of the student's advisory committee.

Planning Option

CE 680	Econ of Des and Constr	3
CE 771	Travel Demand Modeling	3
CE 872	Transportation Safety	3
CE 874	Sustainable Transp. Asset Mgmt	3
CE 816	Advanced Topics (Var)	3
ECON 631	Principles of Transp	3
GEOG 608	Geographic Info Systems II	3
IMSE 850	Ergonomics (Human Factors) Eng	3
PLAN 667	Transportation Planning	3
STAT 705	Regression and Anal of Var	3
STAT 710	Sample Survey Methods	3

Operations Option

CE 680	Econ of Des and Constr	3
CE 771	Travel Demand Modeling	3
CE 816	Advanced Topics (Var)	3
CE 872	Transportation Safety	3
CE 875	Traffic Flow Theory	3
CE 874	Sustainable Transp. Asset Mgmt	3
ECON 631	Principles of Transportation	3
IMSE 560	Intro to Op Res I	3
IMSE 850	Ergonomics (Human Factors) Eng	3
IMSE 881	Linear Programming	3
PLAN 667	Transportation Planning	3
STAT 705	Regression and Anal of Var	3
STAT 710	Sample Survey Methods	3

Design Option

CE 680	Econ of Des and Constr	3
CE 771	Travel Demand Modeling	3
CE 728	Adv Geotech Design	3
CE 751	Hydraulics Open Channels	3
CE 822	Shear Str & Slope Stability	3
CE 844	Prestressed Concrete Des	3
CE 872	Transportation Safety	3
CE 874	Sustainable Transp. Asset Mgmt	3
CE 816	Advanced Topics (Var)	3
IMSE 850	Ergonomics (Human Factors) Eng	3
PLAN 667	Transportation Planning	3
STAT 705	Regression and Ana. of Var.	3
STAT 710	Sample Survey Methods	3

Materials Option

CE 641	CE Materials I	3
CE 680	Econ of Des and Constr Adv	3
CE 728	Geotech Design	3
CE 741	CE Materials II	3
CE 773	Hot Mix Asphalt Design PCC	3
CE 777	Pavements	3
CE 822	Shear Str & Slope Stability Adv	3
CE 802	Mechanics of Materials	3
CE 828	Adv Seep. & Setl. Ana. in Soil	3
CE 816	Advanced Topics (Var)	3
CE 874	Sustainable Transp. Asset Mgmt	3
ME 862	Finite Elements	3
STAT 705	Regression and Ana. of Var	3
STAT 710	Sample Survey Methods	3
STAT 720	Design of Experiments	3