

MASTER OF ENGINEERING IN TRANSPORTATION ENGINEERING

The Master of Engineering in Transportation Engineering is a coursework-only, professionally-oriented degree program that permit a concentration in preparation for engineering practice. With a Master of Engineering in Transportation Engineering degree, a student will be a qualified transportation planner, traffic engineer, and traffic safety engineer. Additionally, the student will be trained to understand and evaluate the socioeconomic impacts

of transportation and infrastructure engineering projects. Up to 12 credit hours of 400-level undergraduate coursework may be included in the program with prior adviser approval. No thesis or comprehensive examination is required for completion of the degree.

Curriculum

Code	Title	Credit Hours
Required Courses		(9-10)
Select a minimum of three courses from the following with adviser consent:		9-10
CAE 523	Statistical Analysis Engg Data	3
CAE 543	Demand Models for Urban Trans	3
CAE 544	Urban Transportation Planning	4
CAE 546	Public Transportation Systems	3
CAE 548	Transportation Systems Mgmt	3
CAE 555	Transportation Sysys Evaluatio	3
CAE 575	Systems Analysis in Civil Engg	3
MATH 525	Statistical Models and Methods	3
Elective Courses		(20-21)
Select 20-21 credit hours from the following: ¹		20-21
CAE 416	Facilty Dsgn Trnsprtn Syst	3
CAE 417	Railroad Engineering & Design	3
CAE 419	Intro Transportation Engg/Dsgn	3
CAE 430	Probability Cncpt Ce Dsgn	3
CAE 508	Advanced Bridge Engineering	3
CAE 539	Intro to Geographic Info Sysys	3
CAE 541	Pavement Evaluation&Management	3
CAE 545	Traffic Operations & Flow Thry	3
CAE 547	Advanced Traffic Engineering	3
CAE 549	Transportation Econ, Dev&Plcy	3
CAE 568	Transportation Asset Mgmt	3
CAE 574	Economic Decision Analysis	3
CAE 580	Intelligent Transport Systems	3
CAE 581	Algorithms in Transportation	3
CAE 597	Special Problems	0-3
MATH 522	Mathematical Modeling	3
MATH 542	Stochastic Processes	3
MATH 563	Mathematical Statistics	3
MATH 564	Applied Statistics	3
MATH 565	Monte Carlo Methods in Fin	3
MATH 571	Data Preparation and Analysis	3
MATH 574	Bayesian Computational Stats	3

Minimum degree credits required: 30

¹ If more than three courses from the required courses list are taken, those additional courses can be applied as electives