

ONLINE - TRANSPORTATION

Administered by: Department of Civil and Environmental Engineering
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Degrees Offered: Master of Science in Civil Engineering

Master of Science in Civil Engineering

Intended for engineering students who want broad technical competence in urban and /or transportation engineering.

Admission Requirements

Students are expected to have an undergraduate degree in engineering or its equivalent.

Bridge Program – Students who lack an appropriate background are asked to make up deficiencies by taking a program of courses that is designed in consultation with the graduate advisor. These courses are taken in addition to the degree requirements.

CE 350	Transportation Engineering
CS 101	Computer Programming
ECON 265	Microeconomics
Math 105	Probability and Statistics
Math 309	Math Analysis for Tech

Degree Requirements

A minimum of 30 degree credits, not including any bridge courses, is required. Candidates must consult with the graduate advisor (not thesis advisor) in designing appropriate programs of study.

Students must attain a minimum GPA of 3.0 in the core courses listed below, and a minimum overall GPA of 3.0.

Students receiving financial aid at any point in their studies must complete 6 credits of CE 701 Master's Thesis.

Core Courses

15 credits as follows:

TRAN 603	Introduction to Urban Transportation Planning
TRAN 615	Traffic Studies and Capacity Analysis
TRAN 625	Public Transportation Operations and Technology
TRAN 650	Urban Systems Engineering
TRAN 752	Traffic Control

General Technical Electives

6 to 9 credits as follows:

CE 610	Construction Management
CE 616	Construction Cost Estimating
CE 620	Open Channel Flow
CE 621	Hydrology

Management/Leadership Electives:

6 to 9 credits as follows:

CE 711	Methods Improvement
EM 632	Legal Aspects in Construction
HRM 601	Organizational Behavior

