### Transportation Engineering

### MS Core Courses in Transportation and Infrastructure Systems Engineering

A set of core courses is required for all MS students in Transportation & Infrastructure Systems Engineering. The objective of such a core program is to guarantee that all MS students have a basic set of skills. The core courses are not required for Ph.D. students who already have a master’s degree from another school or department if they have taken equivalent courses elsewhere. Students may include, at most, one 400 level course in their plan of study.

The core program will consist of:   
1) CE 561: *Transportation Systems Evaluation*,  
2) CE 594: *Transportation Systems Analysis,* and   
3) *One Course in Quantitative Methods*:

STAT 512: Regression Analysis, or STAT 517: Statistical Inference, or IE 535: Linear Programming, or MA 527: Advanced Mathematics for Engineers and Physicists I.

Notes:

(i) Between STAT 512 and 517, students interested in pursuing a Ph.D. are encouraged to take STAT 517.

(ii) Students lacking a basic statistical background are required to take STAT 511 outside the plan of study.