TRANSPORTATION TRACK – TRN

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<tr>
<td>CE 5400 Traffic Operations 3</td>
<td>CE 6410 Intro. to Transportation Planning 3</td>
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(1) TRN Electives – chosen from the following list:

- CE 5010 Introduction to Geographic Information Systems
- CE 6009 The Art and Science of Systems Modeling
- CE 6010 Computational Methods in Civil Engineering
- CE 6420 Public Transportation
- CE 6430 Intermodal Transportation
- CE 6440 Intelligent Transportation Systems
- CE 6450 Transportation Safety Engineering
- CE 6460 Introduction to Integrated Transportation Systems Models
- CE 6470 Transportation Economics
- CE 6490 Transportation Data Analysis and Modeling
- CE 6500 Transportation Sustainability
- CE 7400 Traffic Flow Theory
- SYS 6001 Introduction to Systems Engineering
- SYS 6021 Linear Statistical Models
- SYS 6023 Cognitive Systems Engineering
- SYS 6043 Applied Optimization
- SYS 6050 Risk Analysis
- PLAC 5720 Transportation and Land Use
- PLAN 5740 Transportation Planning and Policy
- ECON 7710 Econometrics I
- STAT 6440 Introduction to Bayesian Methods
- PPOL 7035 Cost-Benefit Analysis

(2) Technical Elective – chosen from any technical course at or above the 5XXX level, as approved by the student’s advisor. For one of the two electives, ME students are encouraged but not required to pursue a meaningful hands-on experience (i.e., research or professional internship) via the CE 6995 course listing.

(3) Pre-requisites for the TRN track include: college calculus and calculus-based probability and statistics, engineering economics (CE 2020 or equivalent), and a course in Transportation Infrastructure Design (CE 3400 or equivalent).

(4) Students may be permitted to modify this framework, pending approval of their academic advisor and the CEE Director of Graduate Studies.