MASTER'S THESIS OPTION

☐ 30 credits of course work

☐ 3 credits CEE 500 Seminar (see below for details)

☐ 9 credits of CEE 700, Master's Thesis
(thesis credits from another department do not count)

42 Total Credits Required

REQUIRED COURSES

☐ IND E 315 or STAT 390 (or equivalent), 3/4 CR (AUT, WIN, SPR)

☐ CEE 500 Seminar, 3 CR to include:

   2 credits CEE 500 Transportation Seminar (Aut & Win) and
   1 credit CEE 500 Departmental Seminar

☐ CEE 584—Analytical Methods in Transportation I (WIN) is required. This requirement may be satisfied by an alternative quantitative course, approved by the transportation faculty listed below:

   ○ ECON 482 Econometric Theory and Practice
   ○ GEOG 426 Advanced Quantitative Methods
   ○ INDE 424 Simulation
   ○ INDE 521 Quality Control in Manufacturing
   ○ STAT 421 Applied Statistics and Experimental Design
   ○ STAT 423 Applied Regression and Analysis of Variance
   ○ STAT 486 Experimental Design

Minimum one course from each of the following key areas:

☐ <u>Planning</u>: CEE 580 Urban Transportation Planning & Design (AUT/SPR) <u>*or*</u>
   CEE 581 Travel Demand Forecasting (SPR)

☐ <u>Operations and ITS</u>: CEE 590 Traffic Systems Operations (AUT) <u>*or*</u>
   CEE 599 Transportation Data Management and Analysis (WIN)

☐ <u>Freight and Logistics</u>: CEE 591 Freight Transportation (AUT) <u>*or*</u>
   CEE 587 Freight Transportation and Logistics (SPR)

> *Refer to the Transportation Area Requirements form for more detailed information:* **http://www.ce.washington.edu/students/masters.html**

ADDITIONAL REQUIREMENTS

☐ 18 credits of 500 level coursework (not counting seminars)

☐ Minimum 18 credits 400-500 level coursework taken for a numeric grade

☐ All CEE classes (except Seminars) taken for a numeric grade

☐ 3 credits of CEE 600 Independent Study does not count

☐ Minimum 3 coursework credits outside CEE (IND E 315 or STAT 390 can fulfill this requirement)

☐ 499 credits do not count toward a graduate degree

☐ 3.0 minimum cumulative GPA

☐ 2.7 minimum grade for a class to count

Students may choose from the following list of electives and may also take classes outside the CEE department as long as they meet the degree requirements, and the program plan has been approved by their faculty advisor.

OPTIONAL COURSES

☐ CEE 404 Infrastructure Construction, 4 CR (WIN)

☐ CEE 410 Traffic Engineering Fundaments, 3 CR (WIN)

☐ CEE 421 Pavement Design, 3 CR (SPR)

☐ CEE 424 GIS for Civil Engineers, 3 CR (AUT)

☐ CEE 441 Transportation & Construction Capstone, 4 CR (SPR)

☐ CEE 498 Roadway Geometric Design, 4CR (WIN)

☐ CEE 498 Traffic Simulation, 3CR (SPR)

☐ CEE 582 Intelligent Transportation Systems, 3 CR (AUT)

☐ CEE 583 Transportation Energy and Sustainability, 3 CR (SPR)

☐ CEE 586 Pedestrian Travel, Land Use and Urban Form, 3 CR (SPR)

☐ CEE 588 Energy Infrastructure & the Environment, 3 CR (AUT)

☐ CEE 589 Transit Systems Planning, 3 CR (SPR)

☐ CEE 599 Travel Survey Methods, 3 CR (SPR)

   CEE 585 Analytical Methods in Transportation II, 3 CR *(Not offered 2016-2017)*

This course list is subject to change. Please refer to the UW Time Schedule as it becomes available for up-to-date information.