Master's of Science in Civil Engineering Program Plan

Student Information

| Name | __________________________ |
| Student # | __________________________ |
| UW NetID | __________________________ |

Area of Study (select one)

- Construction, Energy & Sustainable Infrastructure
- Hydrology & Hyrdodynamics (select subarea)
- Environmental Engineering (select subarea)
- Structural Engineering
- Geotechnical Engineering
- Transportation Engineering

Program □ Thesis □ Non-Thesis

Faculty Adviser Signature __________________________ Date ______

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Submit your approved Program Plan to the Graduate Advisers in More 201 by the end of your first quarter and an updated plan in your final quarter. Failure to do so may delay graduation.
# Master's of Science in Civil Engineering Program Plan

## Transportation Engineering

### Research Track (Thesis Option)
- ☐ 33 credits of coursework
- ☐ 9 credits of CEE 700 - Master's Thesis (max 12 credits with faculty approval)

### Research Paper Option
- ☐ 39 credits of coursework
- ☐ 3 credits of CEE 600 - Research Report

### Professional Master's Program
- ☐ 42 credits of coursework

## General Degree Requirements (42 total credits)
- ☐ 30 credits of coursework
- ☐ 3 credits of CEE 500 seminar
- ☐ 9 credits CEE 700 master's thesis
- ☐ 18 credits minimum 500 level coursework
- ☐ 18 credits min of 400-500 coursework taken for numeric grade

### All CET coursework (except seminars) taken for numeric grade
- ☐ 3.0 minimum cumulative GPA overall
- ☐ 2.7 minimum grade for a course to count

### 3 credits of CET 500 seminar

### 3 credits minimum outside CEE
- ☐ 3 credits minimum outside CEE

### 300 and below coursework does not count towards a graduate degree
- ☐ 30 credits do not count towards a graduate degree

### 6 credits maximum of approved transfer credits
- ☐ 6 credits maximum of approved transfer credits

### 9 credits CEE 700 master's thesis
- ☐ 3 credits of CEE 600 independent study do not count

### 6 year max to complete degree (including official On Leave status)
- ☐ 3.0 minimum cumulative GPA overall

### 6 credits maximum of approved transfer credits

### Required Coursework

All students in Transportation are required to take:

- ☐ CET 584 (prev CEE 584) Analytical Methods in Transportation or alternative (see faculty adviser for alternative options)

### Planning course
- ☐ CET 580 (prev CEE 580) Urban Transportation and Planning (4)
- ☐ CET 581 (prev CEE 581) Travel Demand Forecasting (4)

### Operations & ITS
- ☐ CET 590 (prev CEE 590) Traffic Systems and Operations (3)
- ☐ CET 512 (prev CEE 599) Transportation and Data Management (3)

### Freight and Logistics
- ☐ CET 591 (prev CEE 591) Freight Transportation (3)
- ☐ CET 587 (prev CEE 587) Global Trade, Trans, and Log Management (4)

### Suggested Electives

The remaining course requirements for the MSCE degree can be satisfied by any 5XX and some 4XX courses in the CESG program, as well as a variety of relevant courses from other departments at the UW. Students are encouraged to explore the availability of these courses and decide on an individual plan of study that balances depth and breadth, in line with the student's career goals, with guidance and approval from their faculty adviser.

**Note:** This is not a comprehensive list but rather suggestions for some relevant departments. Refer to the UW Time Schedule or the corresponding department for course offering details. Students should always confirm their elective choices with their faculty adviser.

### Transportation Suggested Electives

- ☐ CEE 404 Infrastructure Construction (4)
- ☐ CEE 410 Traffic Engineering Fundamentals (3)
- ☐ CEE 421 Pavement Design and Construction (4)
- ☐ CEE 441 Transportation & Construction Capstone (5)
- ☐ CEE 498 Roadway Geometric Design (4)

### Suggested Electives From Other Departments

- ☐ Econ 482 Economic Theory and Practice
- ☐ INDE 424 Simulation
- ☐ Stat 421 Applied Statistics and Experimental Design

- ☐ GEOG 426 Advanced Quantitative Methods
- ☐ INDE 521 Quality Control in Manufacturing
- ☐ Stat 423 Applied Regression and Analysis of Variance

- ☐ CET 486 (prev CEE 486) Pedestrian Travel, Land Use, and Urban Form (3)
- ☐ CESI 588 (prev CEE 588) Energy, Infrastructure, and the Environment (3)
- ☐ CET 589 (prev CEE 589) Transit Systems Planning (3)
- ☐ CET 594 (prev CEE 599) Travel Survey Methods (3)