

# Master's of Science in Civil Engineering Program Plan

**Student Information**

Name \_\_\_\_\_

Student # \_\_\_\_\_

UW NetID \_\_\_\_\_

Program  Thesis  Non-Thesis

**Area of Study (select one)**

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

\_\_\_\_\_  
 Faculty Adviser Signature Date

Quarter		
Year		
Course #	Title	Credits

Quarter		
Year		
Course #	Title	Credits

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Quarter		
Year		
Course #	Title	Credits

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 Geotechnical Engineering - Non-Thesis Option

### General Degree Requirements (42 total credits)

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> 18 credits minimum 500 level coursework                       | <input type="checkbox"/> 3 credits maximum of CEE 600 - Independent Study      | <input type="checkbox"/> 499 credits do not count towards a graduate degree                 |
| <input type="checkbox"/> 18 credits minimum of 400-500 level coursework                | <input type="checkbox"/> 3.0 Minimum cumulative GPA overall                    | <input type="checkbox"/> 300 and below coursework does not count towards a graduate degree  |
| <input type="checkbox"/> 3 credits minimum outside of CEE coursework                   | <input type="checkbox"/> 3.0 Minimum cumulative GPA in Geotechnical coursework | <input type="checkbox"/> 6 year max to complete degree (including official On Leave status) |
| <input type="checkbox"/> All CEWA coursework (except seminars) taken for numeric grade | <input type="checkbox"/> 2.7 minimum grade for a course to count               | <input type="checkbox"/> 6 credits maximum of approved transfer credits                     |

### Required Coursework

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> CEE 576 (prev. CEE 599) Adv Soil Mech (4)       | <input type="checkbox"/> CEE 564 (prev. CEE 599) Computational Geomechanics (4) | <input type="checkbox"/> CEE 563 (prev. CEE 523) Advanced Foundation Engineering (3) |
| <input type="checkbox"/> CEE 562 (prev. CEE 527) Adv Geotech Lab (5)     | <input type="checkbox"/> CEE 561 (prev. CEE 599) Soil Dynamics (3)              | <input type="checkbox"/> CEE 566 (prev. CEE 599) Geotechnical Earthquake Eng (3)     |
| <input type="checkbox"/> CEE 5XX (new) Phys-chem Aspects of Soil Beh (3) | <input type="checkbox"/> CEE 5XX (new) Slope Stability and Landslides (3)       | <input type="checkbox"/> CEE 5XX (prev. CEE 599) Geological Eng & Rock Mechanics (3) |
|  | <input type="checkbox"/> CEE 5XX (prev CEE 599) Case Histories (3)              | <input type="checkbox"/> CEE 5XX (new) Geosystems Engineering (3)                    |

Note: There will be updates to the Geotech core coursework numbering over 2018-19. The titles of the courses will not change. If you have any questions please speak to your faculty or academic adviser.

### Suggested Electives

The remaining course requirements for the MSCE degree can be satisfied by any 5XX and some 4XX courses in the CEWA 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 courses. 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.

AA 540/541 Finite Element Analysis I & II (3 each)  
AMATH 506 Applied Probability Statistics (4)  
AMATH 581, 582, 583 Scientific Computing (5)  
AMATH 584, 585, 586 Numerical Analysis (5)  
ARCH 574 Design and Construction Law (3)

ATM S 552 Objective Analysis  
CEE 508 (prev. CEE 503) Materials Modeling (3)  
CEE 501 (prev. CEE 501) Structural Mechanics  
ESS 512 Seismology  
ESS 522 Geophysical Data Collection and Analysis

ESS 523 Geophysical Inverse Theory  
STAT 504, 506 Applied Regression, Applied Prob. & Stat.  
STAT 512 Statistical Inference  
STAT 520 Spectral Analysis of Time Series