### Master's of Science in Civil Engineering Program Plan

#### Student Information

- **Name**
- **Student #**
- **UW NetID**

#### Area of Study (select one)

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

#### Program

- Thesis
- Non-Thesis

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- **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
Geotechnical Engineering - Non-Thesis Option

General Degree Requirements (42 total credits)

☐ 18 credits minimum 500 level coursework  
☐ 3 credits maximum of CEE 600 - Independent Study  
☐ 499 credits do not count towards a graduate degree

☐ 18 credits minimum of 400-500 level coursework  
☐ 3.0 Minimum cumulative GPA overall  
☐ 300 and below coursework does not count towards a graduate degree

☐ 3 credits minimum outside of CESG coursework  
☐ 3.0 Minimum cumulative GPA in Geotechnical coursework  
☐ 6 year max to complete degree (including official On Leave status)

☐ All CEWA coursework (except seminars) taken for numeric grade  
☐ 2.7 minimum grade for a course to count  
☐ 6 credits maximum of approved transfer credits

Required Coursework

☐ CESG 576 (prev. CEE 599) Adv Soil Mech (4)  
☐ CESG 564 (prev. CEE 599) Computational Geomechanics (4)  
☐ CESG 563 (prev. CEE 523) Advanced Foundation Engineering (3)

☐ CESG 562 (prev. CEE 527) Adv Geotech Lab (5)  
☐ CESG 561 (prev. CEE 599) Soil Dynamics (3)  
☐ CESG 566 (prev. CEE 599) Geotechnical Earthquake Eng (3)

☐ CESG 5XX (new) Phys-chem Aspects of Soil Beh (3)  
☐ CESG 5XX (new) Slope Stability and Landslides (3)  
☐ CESG 5XX (prev. CEE 599) Case Histories (3)

☐ CESG 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  
CESG 508 (prev. CEE 503) Materials Modeling (3)  
CESG 501 (prev. CEE 501) Structural Mechanics  
ESS 512 Seismology  
ESS 522 Geophysical Data Collection and Analysis  
ESS 523 Geophysical Inverse Theory  
STAT 512 Statistical Inference  
STAT 520 Spectral Analysis of Time Series