

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 - Professional Master's Program

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 CESG 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 nu	<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"/> CESG 561 (prev. CEE 599) Adv Soil Mech (4)	<input type="checkbox"/> CESG 564 (prev. CEE 599) Computational Geomechanics (4)	<input type="checkbox"/> CESG 567 (prev. CEE 523) Advanced Foundation Engineering (3)
<input type="checkbox"/> CESG 562 (prev. CEE 527) Adv Geotech Lab (5)	<input type="checkbox"/> CESG 565 (prev. CEE 599) Soil Dynamics (3)	<input type="checkbox"/> CESG 568 (prev. CEE 599) Geotechnical Earthquake Eng (3)
<input type="checkbox"/> CESG 563 (new) Phys-chem Aspects of Soil Beh (3)	<input type="checkbox"/> CESG 566 (new) Slope Stability and Landslides (3)	<input type="checkbox"/> CESG 569 (prev. CEE 599) Geological Eng & Rock Mechanics (3)
	<input type="checkbox"/> CESG 571 (prev CEE 599) Case Histories (3)	<input type="checkbox"/> CESG 570 (new) Geosystems Engineering (3)

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.

AA 540/541 Finite Element Analysis I & II (3 each)	ATM S 552 Objective Analysis	ESS 523 Geophysical Inverse Theory
AMATH 506 Applied Probability Statistics (4)	CESG 508 (prev. CEE 503) Materials Modeling (3)	STAT 504, 506 Applied Regression, Applied Prob. & Stat.
AMATH 581, 582, 583 Scientific Computing (5)	CESG 501 (prev. CEE 501) Structural Mechanics	STAT 512 Statistical Inference
AMATH 584, 585, 586 Numerical Analysis (5)	ESS 512 Seismology	STAT 520 Spectral Analysis of Time Series
ARCH 574 Design and Construction Law (3)	ESS 522 Geophysical Data Collection and Analysis	