

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
- Geotechnical Engineering
- Hydrology & Hydrodynamics
- 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

Research Track (Thesis Option)

- 33 credits of coursework
- 9 credits of CEE 700 - Master's Thesis
(max 12 credits with faculty approval in place of 3 coursework credits)

Professional Master's Program (Coursework Option)

- 42 credits of coursework

General Degree Requirements (42 total credits)

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

Required Coursework

Autumn Quarter

- CEE 561 Adv Soil Mech (4)
- CEE 562 Adv Geotech Lab (5)
- CEE 563 Phys-chem Aspects of Soil Beh (3)

Winter Quarter

- CEE 564 Computational Geomechanics (4)
- CEE 565 Soil Dynamics (3)
- CEE 566 Slope Stability and Landslides (3)
- CEE 571 Case Histories (3)

Spring Quarter

- CEE 567 Advanced Foundation Engineering (3)
- CEE 568 Geotechnical Earthquake Eng (3)
- CEE 569 Geological Eng & Rock Mechanics (3)
- CEE 570 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)

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 Materials Modeling (3)

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