

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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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 Structural 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)

- 3 credits maximum of CEE seminar count toward degree
- 3 credits maximum CEE 600 - Independent Study
- 18 credits minimum 500 level coursework
- 18 credits minimum of 400-500 level coursework
- All CEEG coursework (except seminars) taken for numeric grade
- 3 credits minimum outside structures coursework (can be CEE)
- 3.0 minimum cumulative GPA overall
- 3.0 minimum cumulative GPA in CEEG 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
- Structures does not allow internship credit to count towards degree

Required Core (12 credits)

- CEEG 501 Structural Mechanics (4)
- CEEG 502 Structural Dynamics (4)
- CEEG 504 Finite Element Meth in Structural Mech (4)

Electives (21 credits for Thesis, 30 credits for PMP)

The remaining course requirements for the MSCE degree can be satisfied with 5XX and some 4XX courses in the CEEG 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.

- 12 credits of additional 500-level Structures Classes
- Remaining credits of additional coursework to be fulfilled as follows (9/18 credits):
 - Any 500-level Structures or Geotechnical Engineering course
 - Any CEE, COE, and/or AMATH courses on the approved electives lists
 - One ARCH or CM course listed on page 2 of the electives sheet (more than one okay with faculty advisor and SEM graduate coordinator approval)
 - Up to 3 credits of CEE Seminar

Civil Engineering Suggested Electives

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.

- CEEG 505 Engineering Computing (3)
- CEEG 506 Nonlinear Analysis of Structural Sys (3)
- CEEG 507 Structural Stability (3)
- CEEG 508 Materials Modeling (3)
- CEEG 509 Reliability and Design (3)
- CEEG 521 Advanced Reinforced Concrete (3)
- CEEG 522 Prestressed Concrete Design, 3 CR
- CEEG 523 Advanced Structural Systems (3)
- CEEG 524 Advanced Steel I (3)
- CEEG 526 Earthquake Engineering I (3)
- CEEG 527 Earthquake Engineering II (3)
- CEEG 528 Wind Engineering Design (3)
- CEEG 529 Bridge Engineering, 3 CR
- CEEG 599 Advanced Steel II, 3 CR
- CEEG 599 Elasticity, 3 CR
- CEE 599 Math Foundation of Continuum Mechanics (3)
- CEEG 599 Elasticity, 3 CR
- CEE 599 Math Foundation of Continuum Mechanics (3)
- CESI 588 Energy and the Environment (3)

Departments with Suggested Electives

- Aeronautics and Astronautics (AA)
- Mechanical Engineering (ME)
- Material Science and Engineering (MSE)
- Applied Math (AMATH)
- Architecture (ARCH)
- Construction Management (CM)