

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

Structural Engineering - Professional Master's Program

General Degree Requirements (42 total credits)

- 30 credits minimum of course work
- 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 CESG 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 CESG 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)

- CESG 501 (prev. CEE 501) Structural Mechanics (4)
Note: for Fall 2018, this is CEE 599D
- CESG 502 (prev. CEE 502) Structural Dynamics (4)
- CESG 504 (prev. CEE 504) Finite Element Meth in Structural Mech (4)

Electives (30 credits)

The remaining course requirements for the MSCE degree can be satisfied with 5XX and some 4XX courses in the CESG 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
- 18 credits of additional coursework to be fulfilled as follows:
 - 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.

- CESG 505 (prev CEE 505) Engineering Computing (3)
- CESG 506 (prev CEE 506) Nonlinear Analysis of Structural Sys (3)
- CESG 507 (prev CEE 507) Structural Stability (3)
- CESG 508 (prev CEE 503) Materials Modeling (3)
- CESG 509 (prev CEE 518) Reliability and Design (3)
- CESG 521 (prev CEE 511) Advanced Reinforced Concrete (3)
- CESG 522 Prestressed Concrete Design, 3 CR
- CESG 523 (prev CEE 512) Advanced Structural Systems (3)
- CESG 524 (prev CEE 513) Advanced Steel I (3)
- CESG 526 (prev CEE 515) Earthquake Engineering I (3)
- CESG 527 (prev CEE 516) Earthquake Engineering II (3)
- CESG 528 (prev CEE 517) Wind Engineering Design (3)
- CESG 529 Bridge Engineering, 3 CR
- CESG 599 Advanced Steel II, 3 CR
- CESG 599 Elasticity, 3 CR
- CEE 599 Math Foundation of Continuum Mechanics (3)
- CESG 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)