

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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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 (2019/2020)

Environmental 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)

- 2.7 minimum grade for a course to count
- 18 credits minimum 500 level coursework
- 18 credits minimum graded credits at the 400/500 level
- 3.0 Minimum cumulative GPA
- All CEWA coursework (except seminars) taken for numeric grade
- Seminar courses are optional for all degrees
- No more than 2 credits of seminar to count towards degree
- 6 credits maximum of approved transfer credits
- 6 year max to complete degree (including official On Leave status)
- 300 and below coursework does not count towards a graduate degree
- 499 credits do not count towards a graduate degree

Core Water Requirements

- CEWA 540 Microbiological Process Fundamentals (3)
- CEWA 543 Aquatic Chemistry (4)
- CEWA 545 Environmental Organic Chemistry (3)

If you are coming from background other than engineering, you must also take the following in your first quarter

- CEE 347 Fluid Mechanics (5)
- CEE 350 Mass and Energy Balances in Environmental Engineering (4)
- Or*
- CEE 357 Environmental Engineering (5)

Recommended Engineering Systems for Water Quality Courses

- CEWA 541 Biological Treatment Systems (3)
- CEWA 549 Adv Topics in Enviro Eng, Chem, and Bio (3)
- CEWA 582 Wastewater Reuse & Resource Recovery (3)
- CEWA 544 Physical-Chemical Treatment Processes (4)
- CEWA 547 Lake & Watershed Management (3)

Recommended Water Quality in Natural Systems Courses

- CEE 462 Applied Limnology & Pollutant Effects on Freshwater (3)
- CEWA 567 Adv Remote Sensing & Earth Observation (4)
- CEWA 576 Physical Hydrology (4)
- CEWA 596 Fate & Transport of Chem in the Enviro (3)
- CEWA 547 Lake & Watershed Management (3)

Recommended Air Quality Courses

- ATM S 501 Fund of Physics & Chem of the Atmosphere (5)
- CET 588 Energy Infrastructure and the Environment (3)
- ENV H 548 Community Air Pollution (3)
- ATM S 558 Atmospheric Chemistry (3)
- CEWA 557 Air Resources Management (3)
- ENV H 552 Env. Chemistry of Pollution (4)
- CEE 480 Air Quality Modeling (3)
- CEWA 560 Risk Assess for Enviro Health Hazards (4)
- ENV H 555 Industrial Hygiene Measurement Lab (3)
- CEE 490 Air Pollution Control (4)

Other Departments With Coursework of Interest:

Atmospheric Sciences, Environmental and Occupational Health Sciences, Aquatic and Fishery Sciences, Earth and Space Sciences, Environmental and Forest Sciences

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.