

# 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		
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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

## Environmental Engineering - Thesis Option

### General Degree Requirements (42 total credits)

- 9 credits CEE 700 - Thesis
- 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
- 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
- 3.0 Minimum cumulative GPA
- 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 Requirements

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

### Recommended Engineered Systems Water Quality Courses

- CEWA 541 (prev. CEE 541) Biological Treatment Systems (3)
- CEWA 544 (prev. CEE 544) Physical-Chemical Treatment Processes (4)
- CEWA 547 (prev. CEE 547) Lake & Watershed Management (3)
- CEWA 549 (prev. CEE 549) Adv Topics in Enviro Eng, Chem, and Bio (3)
- CEWA 550 (prev. CEE 550) Environmental Chemical Modeling (3)
- CEWA 580 (prev. CEE 577) Water-Quality Management (3)
- CEWA 582 (prev. CEE 599) Wastewater Reuse & Resource Recovery (3)
- CEWA 585 (prev. CEE 599) Environmental Analysis (3)
- CEWA TBD (prev. CEE 599) Microbial Genetics in Env. Processes (3)

### Recommended Natural Systems Water Quality Courses

- CEE 462 Applied Limnology & Pollutant Effects on Freshwater (3)
- CEWA 596 (prev. CEE 551) Fate & Transport of Chem in the Enviro (3)
- CEWA 567 (prev. CEE 599) Adv Remote Sensing & Earth Observation (4)
- CEWA 585 (prev. CEE 599) Environmental Analysis (3)
- CEWA 547 (prev. CEE 547) Lake & Watershed Management (3)
- CEWA 549 (prev. CEE 549) Adv Topics in Enviro Eng, Chem, and Bio (3)
- CEWA 550 (prev. CEE 550) Environmental Chemical Modeling (3)
- CEWA 580 (prev. CEE 577) Water-Quality Management (3)
- CEWA 576 (prev. CEE 476) Physical Hydrology (4)
- CEWA TBD (prev. CEE 599) Microbial Genetics in Env. Processes (3)

### Recommended Air Quality Courses

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

### Other Departments With Coursework of Interest:

Atmospheric Sciences, Environmental Health, Fisheries, Earth and Space Sciences, School of Environmental Forest Resources

### 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.*