

Typical Degree Plan for MSEnE or MSCE in Water and Wastewater Engineering

This plan is intended for students with baccalaureate degrees in either civil engineering or environmental engineering. It is assumed that the student has an introductory course in water and wastewater treatment. The final degree plan is tailored to the student and is developed by the student and advisor.

Requirements: 30 credits total for MSEnE or MSCE

Independent Research: 6-12 credits thesis research or 3-6 credits engineering report research

Course Work: 18-24 credits with thesis; 24 to 27 credits with engineering report

Course Requirements

1. CE 5501 - Environmental Process Engineering 3 cr fall
2. CE 5502 - Biological Treatment Processes 3 cr spring
3. CE 5991/CE 5992 - Environmental Engineering Graduate Seminar (1 credit, f, s)
4. Graduate Level courses: (select four or more so that 5xxx level courses total to at least 18 credits)
 - CE 5503 Physical-Chemical Treatment Processes, 3 cr, (spring)
 - CE 5504 Surface Water Quality Modeling 3 cr (spring)
 - CE 5610 Civil and Environmental Engineering Systems 3 cr (fall)
 - CE 5666 Water Resources Planning and Management (on demand)
 - CE 5664 Water Resources Modeling (on demand)
 - CE 5243 Probabilistic Analysis and Reliability in Civil Engineering, 3 cr (fall)
 - CE 5660 Hydrology II 3 cr, (on demand)
 - CE 5405 Environmental Impacts of Transportation, 3 cr, (fall)
5. Senior Level courses, select to bring total credits to at least 30 counting Independent Research.
 - CE 4501 Environmental Engr Chemical Processes 3 cr (fall)
 - CE 4505 Surface Water Quality Engineering 3 cr (fall)
 - CE 4506 Environmental Regulations and Pollution Prevention 3 cr (spring)
 - CE4508 Water and Wastewater Treatment 3 cr (fall)
 - CE4507 Collection and Distribution Systems Design 3cr (spring)
 - CE4509 Environmental Process and Simulation 2 cr (spring)
 - CE 4620 Open Channel Flow 3 cr (fall)
 - CE 4333 Estimating, Planning and Control of Civil Engineering Projects 3 cr (fall)

Students electing to do Report Option (Plan B) would typically take one more course than a student in the Thesis Option (Plan A).