Environmental Engineering MSCE Option

For thesis, report, or the courses only options, the core courses and three engineering electives must be taken. The remaining courses should be determined after consulting the faculty advisor.

Core Courses

CE 5385	Microbial Applications in Environmental Engineering (f)
CE 5185	Microbial Applications in Environmental Engineering Lab (f)
CE 5391	Advanced Water Treatment (s)
CE 5191	Advanced Water Treatment Lab (s)
ENVE 5307	Advanced Physical and Chemical Wastewater Treatment (f)
ENVE 5107	Advanced Physical and Chemical Wastewater Treatment Lab (f)
ENVE 5399	Biological Municipal Wastewater Treatment (s)

Engineering Electives

CE 5360	Open Channel Hydraulics (f)
CE 5363	Groundwater Hydrology (s)
CE 5364	Groundwater Transport Phenomenon (f)
CE 5366	Water Resources Management
CE 5368	Surface Water Quality Modeling
CE 5383	Bioremediation of Wastes in Soil Systems*
CE 5393	Unit Processes Laboratory** (f)
CE 5394	Natural Systems for Wastewater Treatment
CE 5395	Solid and Hazardous Waste Treatment (s)
ENVE 5303	Design of Air Pollution Control Systems (s)
ENVE 5311	Environmental Systems Modeling and Information Reporting
ENVE 5314	Membrane Treatment Processes
ENVE 5315	Environmental Chemistry for Pollution Management (f)

Non-engineering Electives

STAT 5385	Statistics for Engineers and Scientists I
ENTX 6345	Chemical Sources and Fates in Environmental Systems
ENTX 6371	Procedures and Techniques in Ecological Risk Assessment
ENTX 6385	Statistical Applications in Environmental Toxicology
GEOG 5300	Geographic Information System
RWFM 6305	Geospatial Technologies in Natural Resources Management
GEOL 5428	GIS in Natural Science and Engineering
G CH 5305	Environmental and Aqueous Chemistry

• Co-requisites; upon consent of the instructor
* Prerequisites are CE 5385
** Prerequisite is ENVE 5399

Research Courses

CE 6000 Thesis
CE 6330 Master's report (sign up for report the last semester before graduation)
CE 7000 Research (only for thesis option)

Program Requirements

- The first semester here, students must submit a degree program to the Graduate School.
- Scholarships run from the beginning of the fall semester to the start of the next fall semester; to maintain the scholarship, a GPA of 3.5 is required.
- The three program options that are offered are as follows:

Thesis Option	**Report Option**	**Exam Option**
24 hrs - Course Work	27 hrs - Course Work	30 hrs - Course Work
6 hrs - Thesis	3 hrs – Report	Comprehensive Exam
30 hrs - Total	30 hrs – Total	36 hrs - Total