

M.S. in Environmental Engineering

Degree Requirements

For students lacking an appropriate background, a customized program of bridge courses will be developed in consultation with the graduate advisor. These courses are in addition to the degree requirements and may have prerequisite courses that must also be completed.

A minimum of 30 degree credits is required (excluding bridge courses). Students must consult with their graduate advisor to develop a suitable program of study. A minimum GPA of 3.0 must be maintained in core courses and overall. Students who receive financial aid as Research Assistants must complete 6 credits of Master's Thesis.

With permission of their research advisor, students intending to do an MS thesis should first register in the ENE 700B (Masters Project). Students must receive a satisfactory (S) grade in 700B before registering for ENE 701B (Master's Thesis). Students taking ENE 701B must register in the immediate following semester with the same advisor. The MS thesis topic should be continuation of the work done in ENE 700B.

M.S. in Environmental Engineering

Code	Title	Credits
Bridge Courses		
CE 320	Fluid Mechanics	
CE 321	Water Resources Engineering	
CE 341	Geotechnical Engineering	
CE 341A	Geotechnical Engineering Laboratory	
CHEM 126	General Chemistry II	
CS 101	Computer Programming and Problem Solving	
ECON 265	Microeconomics	
MATH 112	Calculus II	
MATH 279	Statistics and Probability for Engineers	
MECH 320	Statics and Strength of Materials	
Core Courses		
		9
Student may select from the courses listed below.		
ENE 630	Physical Processes of Env Syst	
ENE 661	Environmental Microbiology	
ENE 663	Water Chemistry	
Specialty Electives		
		12-21
Students may select from the courses listed below.		
CE 602	Geographic Information System	
CE 612	Machine Learning and Data Analytics for Civil Engineering Systems	
CE 613	Resilient Systems Planning and Design	
CE 618	Applied Hydrogeology	
CE 620	Open Channel Flow	
CE 621	Hydrology	
CE 638	Nondestructive Testing Methods in Civil Engineering	
CE 644	Applied Engineering Geology	
CE 647	Geotechnical Aspects of Solid Waste	
CE 671	Performance and Risk Analysis of Infrastructure Systems	
CE 672	Security Management of Critical Infrastructure	
ENE 660	Introduction to Solid and Hazardous Waste Problems	
ENE 662	Site Remediation	
ENE 664	Physical and Chemical Treatment	
ENE 665	Biological Treatment	
ENE 666	Analysis of Receiving Waters	
ENE 667	Solid Waste Disposal Systems	

ENE 671	Environmental Impact Analysis	
ENE 672	Stormwater Management	
ENE 673	Sustainability and Life Cycle Analysis	
ENE 700B	Master's Project	
ENE 701B	Master's Thesis	
ENE 701C	Master's Thesis	
ENE 702	Special Topics in Environmental Engineering	
ENE 703	Biogeochemical Applications in Environmental Engineering	
ENE 720	Environmental Chemodynamics	
ENE 725	Independent Study I	
ENE 726	Independent Study II	
TRAN 655	Land Use Planning	
Management/Leadership Electives		0-9
Students may select from the courses listed below.		
CE 610	Construction Management	
CE 611	Project Planning and Control	
CE 616	Construction Cost Estimating	
CE 711	Methods Improvement in Construction	
ACCT 615	Management Accounting	
Total Credits		30