

Master of Engineering in Civil and Environmental Engineering

Educational Objectives

- Students will demonstrate an ability to apply advanced science and engineering concept to the solution of complex engineering problems.
- Students will demonstrate an ability to communicate effectively orally and in written form.

Admission Requirements

Applicants must have completed a bachelor's in civil engineering or another related engineering discipline. Candidates wishing to pursue acceptance into the program with a non-Civil/Environmental Engineering background are welcome to apply and should request specific detailed information regarding admission policy and possible leveling courses with the graduate advisor. Students need at least a 2.5 undergraduate grade point average to be considered for admission. Applicants who do not have degrees from English medium universities are required to submit scores from the Test of English as a Foreign Language (TOEFL). A score of 213/550 is required for admission.

Recommendations for admission are made on the basis of the following:

- Grade point average in upper-division or graduate work as appropriate.
- Resume or evidence of relevant personal or professional experience.
- Letters of recommendation.

Degree Requirements

For the Master of Engineering in Civil and Environmental Engineering degree, students are required a total of thirty-three (33) credit hours of coursework with grades of B or higher.

Water Resources Engineering Management Track

Students have the option of completing the Water Resources Engineering Management Track within the MECEE program by completing 18 SCH of the MECEE program plus 15 SCH from the following list:

Code	Title	Hours
CE 5340	Surface Water Hydrology	3
CE 5302	Grndwtr Hydro & Polltn	3
CE 6313	Water Resources Mgmt	3
CE 5345	Adv Phy-Chem Water Treat	3
CE 5313	Water Reclamation & Reuse	3
CE 5349	Design-Filtrat'n/Membrane Proc	3
CE 5409	Environmental Eng Chemistry	4
ESE 6301	Environmental Law and Policy	3
CE 5344	Biol Unit Operations/Processes	3
CE 5341	Hydraulic Computer Application	3

Degree Plan

Required Credits: 33

Code	Title	Hours
MEENE in Environmental Engineering (All courses require a grade of C or better)		
Course Work:		
Select thirty-three hours of the following:		33
CE 5302	Grndwtr Hydro & Polltn	
CE 5304	Adv Design of Struct Systms	
CE 5305	Advanced Structural Analysis	
CE 5307	Finite Element Method (3-0)	
CE 5310	Risk/Reliability Anal-Engr Sys	
CE 5312	Environmental Processes	
CE 5313	Water Reclamation & Reuse	

CE 5317	Stats Methods for Civil Eng
CE 5318	Bridge Engineering
CE 5320	Advanced Geotechnical Eng.
CE 5323	Prestressed Concrete
CE 5324	Construction Management
CE 5325	Design for Dynamic Loads
CE 5326	Air Pollution Control
CE 5332	Methods Engineering Computatio
CE 5340	Surface Water Hydrology
CE 5341	Hydraulic Computer Application
CE 5344	Biol Unit Operations/Processes
CE 5345	Adv Phy-Chem Water Treat
CE 5349	Design-Filtrat'n/Membrane Proc
CE 5351	Mech Pavement Design/Analysis
CE 5352	Foundation Design II
CE 5353	Geotech. Site Investigation
CE 5355	Advanced Civil Eng. Materials
CE 5356	Sustainable Engr Design
CE 5357	Structural Loads Models
CE 5358	Traffic Engineering
CE 5359	Foundation Design I
CE 5360	Highway Geometric Design
CE 5361	Traffic Flow/Simulat Modeling
CE 5362	Urban Transportation Planning
CE 5365	Infrastrct Syst Design & Eval
CE 5371	Construction Dispute Resolutn
CE 5382	Adv Constr Cost Analysis & Bid
CE 5385	Construction Internship
CE 5386	Adv Construction Law & Ethics
CE 5387	Adv Construction Scheduling
CE 5388	Advanced Construction Safety
CE 5389	Adv Constr Methods & Materials
CE 5390	Special Topics Civil Engr
CE 5391	Individual Studies
CE 5392	Earth Construction
CE 5394	Graduate Research
CE 5395	Construction Claims
CE 5396	Graduate Projects
CE 5397	Graduate Projects
CE 5398	Thesis
CE 5399	Thesis
CE 5409	Environmental Eng Chemistry
CE 5694	Graduate Research
CE 6195	Civil Engineering Seminar
CE 6296	Doctoral Research
CE 6301	Infrastructure Management
CE 6303	Engineering Analysis (3-0)
CE 6306	Infrastructure Engineering
CE 6313	Water Resources Mgmt
CE 6332	Mod Methods/Engr Computation
CE 6396	Doctoral Research
CE 6398	Dissertation

CE 6399

Dissertation

Total Hours

33