

CONTAMINATED SITE REMEDICATION (GRADUATE CERTIFICATE)

The Civil and Environmental Engineering Department offers a 12-credit certificate program in Contaminated Site Remediation. The courses provide the necessary knowledge at an advanced level to engage in the design of contaminated site investigation, remediation and redevelopment. Students learn to use appropriate tools for the planning of subsurface investigations and design waste containment systems, and to apply fundamental physical, chemical and biological principles of soil and groundwater treatment methods in the context of the appropriate regulatory framework.

Required Courses

Course	Title	Credits
ENVE 5210	Environmental Engineering Chemistry - I	3
ENVE 5252	Environmental Remediation	3
ENVE 5530	Environmental Site Investigations	3
Select one of the following:		3
ENGR 5312	Engineering Project Planning and Management	
ENGR 5314	Advanced Engineering Mathematics	
ENVE 5240	Biodegradation and Bioremediation	
ENVE 5310	Environmental Transport Phenomena	
ENVE 5311	Environmental Biochemical Processes	
ENVE 5320	Quantitative Methods for Engineers	
ENVE 5821	Vadose Zone Hydrology	
ENVE 5830	Groundwater Flow Modeling	
Total Credits		12