

HYDROGEOLOGY AND GROUNDWATER MODELING, GRADUATE CERTIFICATE

A minimum of 9 credit hours of approved graduate coursework is required for the certificate in Hydrogeology and Groundwater Modeling. The following course is required:

Code	Title	Hours
EEES 5410	Hydrogeology	3
Select two of the following		6
EEES 5220	Environmental Geochemistry	
EEES 5610	Solid Earth Geophysics	
EEES 6100	Glacial Stratigraphy And Geophysics	
EEES 6440	Contaminant Hydrogeology	
EEES 6450	Advanced Applied Hydrogeology	
Total Hours		9

- Students will develop research questions and state a hypotheses that can be answered with data and observations.
- Students will be able to calculate groundwater flow rates, fluxes and storage.
- Students will evaluate groundwater resource availability and quality.
- Students will apply mathematical reasoning and scientific inquiry to hydrogeological problems.
- Students will be able to operate geophysical and coring equipment for field data collection.
- Students will process digital geophysical data and interpret and synthesize that data.