

## Department of Civil and Environmental Engineering

### Elective Requirements

A student has to take a total of 3 courses encompassing 9 credit hours from the following list:

Code	Elective Requirement Courses	Credit Hours
CIVE 410	Structural Analysis II	3
CIVE 430	Foundation Engineering	3
CIVE 440	Hydraulics + Laboratory	3
CIVE 485	Specifications and Cost Estimation	3
CIVE 510	Bridges	3
CIVE 511	Advanced Structural Analysis	3
CIVE 520	Plain Concrete	3
CIVE 522	Pre-stressed Concrete	3
CIVE 530	Applied Foundation Engineering	3
CIVE 532	Soil and Site Improvement	3
CIVE 540	Hydraulic Structures	3
CIVE 541	Surface Water Hydrology	3
CIVE 542	Groundwater Hydrology	3
CIVE 550	Methods of Environmental Sampling and Analysis	3
CIVE 553	Water and Sewage Works Design	3
CIVE 554	Solid Waste Management I	3
CIVE 560	Pavement Design	3
CIVE 561	Urban Transportation Planning I	3
CIVE 562	Traffic Engineering	3
CIVE 570	Introduction to Geographic Information Systems	3
CIVE 590	Structural Dynamics	3