

# Technical Electives For ENCE Majors Following The Old Curriculum

Updated March 3, 2004

## ENCE 400-Level Classes That May Be Used as Technical Electives (Currently Offered)

No.	Name	Category							Note
402	Simulation and Design of Experiments						G		
411	Environmental Engineering Science			C					
412	Environmental Engineering			C					
420	Construction Equipment and Methods							H	
421	Engineering Contracts							H	
422	Project Cost Accounting & Economics						G	Formerly ENCE 463	
423	Project Planning, Scheduling & Control	A							
425	Decision Analysis for Engineering	A							
431	Hydrologic Engineering		B						
432	Ground Water Hydrology		B						
441	Foundation Design				D				
444	Lab. Characterization of Geomaterials							H	
447	Pavement Engineering				D				
453	Computer Aided Structural Analysis							H	
454	Design of Concrete Structures					E			
455	Design of Steel Structures					E			
456	Intermediate Strength of Materials							H	
470	Highway Engineering						F		
472	Transportation Engineering						F		
488	Senior Thesis							H	
489	Special Problems							H	

## ENCE 300-Level Classes That May Be Used as Technical Electives (Currently Offered)

No.	Name	Category							Note
301	Geo-Metrics and GIS in Civil Eng.						G	Formerly ENCE 465	
353	Introduction to Structural Analysis						G	If 355 taken for req.	
355	Introduction to Structural Design					E		If 353 taken for req.	
360	Analysis of Civil Engineering Systems						G		
361	Applied Numerical Techniques						G		

## ENCE 400-Level Classes That May Be Used as Technical Electives (No Longer Offered)

No.	Name	Category							Note
410	Advanced Strength of Materials							H	
430	Flow in Open Channels & Conveyance		B						
433	Environmental Engineering Analysis							H	
435	Sanitary Eng. Analysis & Design			C					
436	Drinking Water Treatment			C					
440	Engineering Soil Tests							H	
442	Highway & Airfield Pavement Design				D			Replaced with 447	
463	Engineering Economics & Systems						G	Replaced with 422	
465	GIS for Planning and Design Models						G	Replaced with 301	
471	Urban Transportation Planning						F		

## Non-ENCE 400-Level Classes That May Be Used as Technical Elective

No.	Name	Category						
ENES 435	Product Liability & Regulation							H
One ENES, MATH, CHEM case by case								

Exceptions made on a case-by-case basis; such exceptions are not meant to imply changes to this policy.