

## Civil ET Technical and Surveying Electives-Revised January 2016

A technical elective is any class, numbered over 300, in the College of Engineering that advances the student's competence level in their area of interest. Classes numbered 300 or above outside of the College of Engineering may be approved for use as a tech. elective if the technical content of the class is deemed sufficient by the Program Coordinator and the Department Head.

What follows is a list technical electives and the corresponding basic study areas that have been used by CET students. Note: **only three** technical electives are required. If more than three courses are listed in any category it just means that you have a choice.

### Construction (Recognized Concentration)

ET 454	Advanced Construction Technology
ET 455	Cost Estimating and Scheduling
ET 386	Sustainable Construction and Green Building Design
MGT 4xx	Covering some aspect of Project Management

### Transportation (Recognized Concentration)

ET 472	Intelligent Transportation Systems
ET 455	Cost Estimating and Scheduling
CE 479	Pavement Analysis and Design

### Water/Wastewater (Recognized Concentration)

ET 321	Water and Wastewater Technology
CE 256	Environmental Science
CE 356	Fundamentals of Environmental Engineering
CE/ENVE 455	Solid and Hazardous Waste System Design

### Renewable Energy (Recognized Concentration)

ET 381	Renewable Energy Technologies
ET 382	Solar Energy
ET 384	Wind and Water Energy
ET 386	Green Building and Sustainable Construction

### Building Utilities

ET 365	Building Utilities
ET 396	Heat Transfer and Applications
ET 401	Heating & Air Conditioning Systems

### Structural

CE 315	Structural Mechanics I
CE 365	Intermediate Structural Mechanics
CE 443	Wood and Masonry Design
CE 444	Elements of Steel Design
CE 445	Reinforced Concrete Design

### Drafting (DACC)

DRFT 242/243	Roadway/Land Development Drafting
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### Approved Surveying Electives

SUR 328	Principles and Practices of Construction Surveying
SUR 330	Computer Applications of Surveying
SUR 351	Introductory Survey Measurements, Analysis, and Adjustments
SUR 361	Introduction to Geodesy
SUR 370	Control Surveying
SUR 384	Surveying Practicum