

CE 490-495 SPECIAL TOPICS

Type (check one): Required: _____ Elective: X

2005-2006 Catalog Data: CE 490-495. Special Topics. Elective courses of special or current interest. Taught by faculty with special or unique qualifications. Taken by Juniors and Seniors. Prerequisites are announced with course offerings. *One semester; one to four credits.*

Prerequisites: Prerequisites are announced with course offerings.

Co-Requisites: None

Textbook: Announced with course offerings.

Other Required Materials: Announced with course offerings.

Other References: Announced with course offerings.

Instructor: Mr. Gene McGinnis, Assistant Professor of Civil and Environmental Engineering

Course Objectives: To provide civil and environmental engineering students an opportunity to study special topics or current interests in the field of civil and environmental engineering.

Prerequisites by Topics: Prerequisites are announced with course offerings.

Topics: Announced with course offerings.

Class Schedule: Announced with course offerings.

Prepared by: Mr. Gene McGinnis, P.E. **Date:** October 2005

**PROFESSIONAL COMPONENT:
CE 490-495 SPECIAL TOPICS**

Category (check one)	<input type="checkbox"/> Math/Basic Science <input checked="" type="checkbox"/> Engineering <input type="checkbox"/> General Education <input type="checkbox"/> Other
Design (check one)	<input type="checkbox"/> Significant <input type="checkbox"/> Some <input checked="" type="checkbox"/> None
Realistic Constraints (check all that apply)	<input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input type="checkbox"/> Sustainability <input type="checkbox"/> Manufacturability <input type="checkbox"/> Ethical <input type="checkbox"/> Health & Safety <input type="checkbox"/> Social <input type="checkbox"/> Political

Relationship to Program Outcomes:

Check all that apply:

- (a) an ability to apply knowledge of mathematics, science, and engineering
- (b) an ability to design and conduct experiments, as well as to analyze and interpret data
- (c) an ability to design a system, component, or process to meet desired needs
- (d) an ability to function on multi-disciplinary teams
- (e) an ability to identify, formulate, and solve engineering problems
- (f) an understanding of professional and ethical responsibility
- (g) an ability to communicate effectively
- (h) the broad education necessary to understand the impact of engineering solutions in a global and societal context
- (i) a recognition of the need for and an ability to engage in life-long learning
- (j) a knowledge of contemporary issues
- (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice