

CE 499 – INTERNSHIP IN CIVIL AND/OR ENVIRONMENTAL ENGINEERING

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

2005-2006 Catalog Data: CE 499. Internship in Civil and/or Environmental Engineering. Students majoring in civil/environmental engineering may be placed in the engineering offices of contracted firms to receive job training under the supervision of qualified engineers. Tasks completed as part of the internship must be approved by an authorized work supervisor. Credit is granted upon faculty approval of periodic review reports and a final summary report describing the work performed. Minimum time 200 hours. Prerequisites: Junior standing and permission of the department. *Pass/Fail Grading. One semester; three credits.*

Prerequisites: Junior standing and faculty approval

Co-Requisites: None

Textbook: None

Other Required Materials: None

Other References: None

Instructor: Dr. K. Madhavan, Professor of Civil and Environmental Engineering

Course Objectives: To provide civil and environmental engineering students an opportunity to receive on-the-job training under the supervision of practitioners in industry.

Prerequisites by Topics: Junior standing and faculty approval

Topics:

1. Proposal
2. Progress Reports
3. Final Written Report
4. Oral Presentation

Class Schedule: Periodic meetings between faculty and student.

Prepared by: Dr. K. Madhavan **Date:** August 2005

**PROFESSIONAL COMPONENT:
CE 499 – INTERNSHIP IN CIVIL AND/OR ENVIRONMENTAL ENGINEERING**

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) recognition of the need for and an ability to engage in life-long learning
- (j) knowledge of contemporary issues
- (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice