CE 280 Civil Engineering Case Studies (syllabus subjected to change) Fall 2010

INSTRUCTOR: Dr. Arturo S. Leon, Ph.D., P.E.

Web site: http://coen.boisestate.edu/ce/faculty/aleon/Teaching Case studies.html

Class hours: 4:40 – 5:55 P.M. Monday/Wednesday

Class location: MEC 103

Office: MEC 403A

Office hours: By appointment (please send me an e-mail) E-mail: arturoleon@boisestate.edu, artuleon@gmail.com

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DESCRIPTION

This course will review historical and ongoing projects from various aspects of Civil Engineering.

PREREQUISITES

ENGR 120 and Sophomore Standing.

COURSE OBJECTIVES:

By the end of this course students will be able to demonstrate the following:

- 1) an understanding of professional and ethical responsibility and the ability to explain the importance of professional licensure
- 2) an ability to communicate effectively
- 3) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- 4) a recognition of the need for, and an ability to engage in life-long learning

COURSE STRUCTURE:

This course will be broken up into the following

- 1) Licensing & Ethical Responsibilities of a civil engineer
- 2) Videos- Resonance, transient flow, river flooding, dam collapse, etc.
- 3) Guest Lectures
- 4) Group project- presentation and written report
- 5) In class exercises- open questions and discussions
- Final exam

GROUP PROJECT: The class will be split into groups (2-3 students / group) to work on a topic of your choice and turn in a 5-pages written report describing the problem and its solution. Each group will be assigned a class period during which you will present your topic to the class (Power Point) in approximately 45 min and allow 30 min for

questions and class discussion. The written report will be due on the last week of November.

FINAL EXAM: The final exam will be on Monday December 6, 2010. It will consist of 7-10-short answer questions from the material taught throughout the semester.

BOISE STATE UNIVERSITY ATTENDANCE POLICY:

"You are responsible for attending courses for which you are enrolled. You are also responsible for making up any work you may have missed by failing to attend class, even if the university approved the absence, necessitated by illness, or necessitated by a personal emergency. In this sense, then, there are no "excused" absences."

ACADEMIC INTEGRITY & STUDENT CONDUCT: Students have the responsibility to know and observe the requirements of the Code of Conduct: Academic Honesty (Chapter 2 of the Undergraduate Catalog). This code forbids cheating, fabrication, or falsification of information, multiple submission or academic work, plagiarism, abuse of academic materials, and complicity in academic dishonesty. Any special requirements or permission regarding academic integrity in this course will be stated by the instructor, and are binding on the students. Academic evaluations in this course include a judgment that the student's work is free from academic dishonesty of any type; and grades in this course therefore should be and will be adversely affected by academic dishonesty. Students who violate the code can be suspended or expelled from BSU. The normal penalty for a first offense is zero credit on the work involving dishonesty and further substantial reduction of the course grade. In almost all cases the course grade is reduced to F.

GRADING

The course grade is based on the following components:

Final exam: 30%

Course Project: 60% Oral Presentation - 30% (20% - Content, 10% - Delivery)

Written Report - 30% (20% - Content, 10% - Composition)

Class participation: Up to 20% (10 Extra points)

Letter grades will be based on the weighted average specified above and assigned as follows:

| A + | > 97% |
|------------|------------|
| Α | 94- 96.99% |
| Α- | 90- 93.99% |

| B+ | 85– 89.99% |
|----|------------|
| В | 80-84.99% |
| B- | 75– 79.99% |

| C+ | 70-74.99% |
|----|-----------|
| С | 65-69.99% |
| C- | 60-64.99 |

| D | 52- 59.99% |
|---|------------|
| F | < 51.99% |