

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

Phone: (208) 426-5706

Fax: (208) 426-4800

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
- 6) 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

