

BIOLOGICAL ENGINEERING 4383
NATURAL RESOURCE ENGINEERING
CREDIT HOURS: 3 (3 HOURS LECTURE)
FALL SEMESTER 2008

7:40 - 9:00 A.M. T TH ROOM 115 E.B. DORAN BLDG

COURSE DESCRIPTION:

Prerequisite: CE 2200. Engineering analysis and design of natural resource control systems, including open channels, vegetated waterways, terraces, water control structures, spillways, reservoirs, flood control, surface water quality, and wetlands.

OBJECTIVE: To enable the student to analyze and design natural resource control systems.

INSTRUCTOR: DR. RICHARD L. BENGTSON, Room 177, E.B. DORAN BLDG
Phone: 578-1056, Office Hours: 9:10 to 11:30 A.M. TTh

REFERENCE: Natural Resources Engineering
by Ernest W. Tollner.
Iowa State Press.

<u>GRADING OUTLINE:</u>	ATTENDANCE	100 points
	HOMEWORK AND QUIZZES	200 points
	ONE HOUR EXAMINATIONS	100 points
	DESIGN PROJECT	100 points
	FINAL EXAMINATION	<u>100 points</u>
	TOTAL	600 points

Course grades will be determined from the following scale:

A: (100-90%) B: (89-80%) C: (79-70%) D: (69-60%) F: (59-0%)

Homework will be due one (1) week after it is assigned. Late homework will have 25% deducted from the grade.

Quizzes and test cannot be made up.

EXAMINATIONS: We will have one (1) one-hour examination and a final examination. We will use the following tentative schedule.
October 16th (Thursday)

FINAL EXAMINATION: Tuesday December 9th, 7:30-9:30 A.M.

"Academic Misconduct, as defined in the Code of Student Conduct, will not be tolerated in this course. It is my responsibility as the instructor to report such incidents to the Department of Judicial Affairs. It is your responsibility to understand the Code of Student Conduct and make sure your actions and perceived actions are not considered as misconduct. Ignorance of these rules will not be an adequate defense in such cases. Go to <http://appl003.lsu.edu/slas/judicialaffairs.nsf/index> for a copy of the current Code of Student Conduct."

ABET objectives assessed in BE 4383.

- (a) An ability to apply knowledge mathematics, science, and engineering
- (c) An ability to design a system, component, or process to meet desired needs
- (e) An ability to identify, formulate, and solve engineering problems
- (f) An understanding of professional and ethical responsibility
- (h) The broad education necessary to understand the impact of engineering solutions in a global and societal context
- (j) A knowledge of contemporary issues
- (k) An ability to use techniques, skills, and modern engineering tools necessary for the engineering practice

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