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CURRICULUM PROPOSAL FORM

DEADLINES:

REGULAR COURSE PROPOSALS: OCTOBER 23, 1998 FOR FALL, 1999 AND FEBRUARY 19, 1999 FOR SPRING, 2000
SHORT-TERM COURSE PROPOSALS: DECEMBER 11, 1998 FOR FALL, 1999 AND MARCH 26, 1998 FOR SPRING 2000

PROPOSAL TITLE: Civil Engineering Design Project II

SPONSOR/S: Ralph Alan Dusseau

DEPARTMENT: Civil Engineering

6908.492

CHECK ALL THAT APPLY:

UNDERGRADUATE GRADUATE

COLLEGE: Engineering

If LAS: History/Humanities
 Math/Sciences
 Social/Behavioral Sciences

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TYPE OF PROPOSAL (Check ALL that Apply)

<input type="checkbox"/> General Education	<input checked="" type="checkbox"/> New Course (NOT Gen. Ed.)
<input type="checkbox"/> <i>New Course in _____ Bank</i>	<input type="checkbox"/> Name Change (Dept., School, Major)
<input type="checkbox"/> <i>Existing course, Add To _____ Bank</i>	<input type="checkbox"/> Changes in Degree Requirements
<input type="checkbox"/> <i>Multicultural/Global Designation</i>	<input type="checkbox"/> <i>Changes Involve Gen. Ed. requirements</i>
<input type="checkbox"/> <i>Writing Intensive Designation</i>	<input type="checkbox"/> Minor Changes to Existing Courses
<input type="checkbox"/> New Minor/Concentration/Specialization	<input type="checkbox"/> <i>Course is NOT General Education</i>
<input type="checkbox"/> New Major/Degree Program	<input type="checkbox"/> <i>Course IS General Education</i>
<input type="checkbox"/> Short Term Course Proposal	

DEPARTMENT
(SIGNATURE INDICATES APPROVAL)

[Signature] 10/5/98 [Signature] 10/5/98

DEPT. CURRICULUM CHAIR / DATE DEPT. CHAIRPERSON / DATE

COLLEGE CURRICULUM COMMITTEE
DATE OF OPEN HEARING (if necessary) _____

APPROVED
 NOT APPROVED

COMMENTS:

[Signature] 2/19/99

SIGNATURE DATE

ACADEMIC DEAN (& GRADUATE DEAN, for New Graduate Programs Only)

APPROVED
 NOT APPROVED

COMMENTS:

[Signature] 10/19/98

SIGNATURE (Academic Dean) DATE

SIGNATURE (Graduate Dean) DATE

UNIVERSITY CURRICULUM COMMITTEE

DATE OF OPEN HEARING (if necessary): 2/9/99 (College level only)

APPROVED

NOT APPROVED

COMMENTS:

Janeetta Rendon 3/21/99
SIGNATURE DATE

SENATE

Date announced at Senate 2/25/99

Voted upon at Senate: Approved Not Approved Date:

EXECUTIVE VICE PRESIDENT/PROVOST

APPROVED

NOT APPROVED If no, reasons are as follows:

STUDENT CREDIT HOURS _____ FACULTY LOAD HOURS _____ EQUALIZED CREDIT HOURS _____

OFFICIAL COPY & APPROVAL SHEET FILED (DATE): _____

DATE/SIGNATURE EXECUTIVE VICE PRESIDENT/PROVOST

C. M. Rendon

REGISTRAR

DATE APPROVED COURSE DESCRIPTION RECEIVED _____

HEGIS TAXONOMY & COURSE NUMBER ASSIGNED 0900 492

DATE/SIGNATURE OF REGISTRAR Robert A. Kubat 3/25/99

NOTIFICATION FORWARD:

SENATE CURRICULUM COMMITTEE CHAIRPERSON

DEPARTMENT CHAIRPERSONS

ACADEMIC DEAN(S)

REGISTRAR

SPONSOR(S)

7117 3/21/99

Course Proposal:

1. Details:

- a) Course Title: Civil Engineering Design Project II
- b) Sponsor: Civil Engineering Curriculum Committee
- c) Credit Hours: 2 credit hours
- d) Course Level: Senior (0908.492)
- e) Curricular Effect: Required course for all undergraduate civil engineering students
- f) Prerequisites: Civil Engineering Design Project I (0908.491)
- g) Suggested Time/Scale of Implementation: Approximately 6 project teams will be sponsored per semester
- h) Resources:

Faculty: Existing faculty will teach this course.

Library: Library acquisitions may be required on a project-by-project basis.

Equipment: Laboratory supplies may be required on a project-by-project basis.

Computers: Computer access will be required for most project. Acquisition, training, and utilization of professional software packages may be required on a project-by-project basis.

2. Rationale:

The goal of this sequence of two senior-level courses is to give civil engineering students a meaningful, leading-edge, team-based design experience. This sequence will satisfy the Accreditation Board for Engineering and Technology which requires that all civil engineering programs include a significant design experience at the senior year. While this experience was originally planned to be part of the Senior Engineering Clinics, the decision was made to separate these experiences to allow civil engineering students to work in pure civil engineering teams, which is much more consistent with real-world practice.

3. Essence of the Course:

a) Objectives:

Upon completion of these two senior-level courses, civil engineering students working in design teams and guided by two or more faculty advisors will be able to do the following:

- conduct a thorough literature search and review
- prepare a clear and concise problem statement
- consult with other faculty and professional experts
- develop and implement a detailed design plan
- prepare weekly oral and/or written progress reports
- make a final written report and oral presentation

b) Topical Outline:

The design project or projects will be chosen by the faculty advisors to give the student project teams the most meaningful civil engineering design experience possible. This sequence of two senior-level courses will include the following components:

- a thorough literature search and review
- a clear and concise problem statement
- a record of consultations with industry experts
- a design plan developed and implemented in close collaboration with faculty and industry mentors
- a record of project development and execution including weekly progress reports
- a final written report and oral presentation

c) Evaluation and Grading Procedure of Students:

Evaluation of team progress will be made each week by the civil engineering faculty advisors and each semester by all of the civil engineering faculty.

d) Course Evaluation:

The proposed course will be evaluated based on student evaluations and reviews conducted by civil engineering faculty.

4. Results of Consultations:

The course is consistent with the civil engineering curricula that were approved by the University Senate in December 1994, the revised curricula that were approved in June 1996, and the latest curricula approved by the civil engineering faculty.

Catalog Description:

Civil Engineering Design Project II (0908.492)

Prerequisites: Civil Engineering Design Project I (0908.491)

This is the second course in a sequence of two courses that will provide a meaningful design experience for teams of undergraduate civil engineering students under the direction of two or more faculty advisors. The sequence will include a thorough literature search and review, the development of a clear and concise problem statement, consultations with other faculty and industry experts, and the derivation of publishable results. The project will culminate in a final written report and oral presentation.