

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 Practice

SPONSOR/S: Ralph Alan Dusseau

DEPARTMENT: Civil Engineering

C908 490

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"/> New Course in <u> </u> Bank	<input type="checkbox"/> Name Change (Dept., School, Major)
<input type="checkbox"/> Existing course, Add To <u> </u> Bank	<input type="checkbox"/> Changes in Degree Requirements
<input type="checkbox"/> Multicultural/Global Designation	<input type="checkbox"/> Changes Involve Gen. Ed. requirements
<input type="checkbox"/> Writing Intensive Designation	<input type="checkbox"/> Minor Changes to Existing Courses
<input type="checkbox"/> New Minor/Concentration/Specialization	<input type="checkbox"/> Course is NOT General Education
<input type="checkbox"/> New Major/Degree Program	<input type="checkbox"/> Course IS General Education
<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) 2/2/99

APPROVED
 NOT APPROVED

COMMENTS:

[Signature] 2/2/99
SIGNATURE DATE

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

APPROVED
 NOT APPROVED

COMMENTS:

[Signature] 10/17/98
SIGNATURE (Academic Dean) DATE

SIGNATURE (Graduate Dean) DATE

UNIVERSITY CURRICULUM COMMITTEE

DATE OF OPEN HEARING (if necessary) 2/9/99 (College Meeting)

APPROVED

NOT APPROVED

COMMENTS:

Janette Rendon 3/4/99
SIGNATURE DATE

SENATE

Date announced at Senate 2/23/99

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 [Signature]

REGISTRAR

DATE APPROVED COURSE DESCRIPTION RECEIVED _____

HEGIS TAXONOMY & COURSE NUMBER ASSIGNED 490.490

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

NOTIFICATION FORWARD:

- SENATE CURRICULUM COMMITTEE CHAIRPERSON
- DEPARTMENT CHAIRPERSONS
- ACADEMIC DEAN(S)
- REGISTRAR
- SPONSOR(S)

Tim 3/31/99

Course Proposal:

1. Details:

- a) Course Title: Civil Engineering Practice
- b) Sponsor: Civil Engineering Curriculum Committee
- c) Credit Hours: 1 credit hour
- d) Course Level: Senior (0908.490)
- e) Curricular Effect: Required course for all undergraduate civil engineering students
- f) Prerequisites: Civil Engineering Systems (0908.305)
- g) Suggested Time\Scale of Implementation: One three-hour seminar/workshop per week
- h) Resources:

Faculty: Existing faculty will teach this course.

Library: Library acquisitions may be required.

Equipment: Laboratory supplies will not be required.

Computers: Computer access may be required.

2. Rationale:

The goal of this senior-level course is to give civil engineering students meaningful exposure to several critical topics related to the real-world practice of civil engineering. This course will satisfy the Accreditation Board for Engineering and Technology which requires that all civil engineering programs give students significant exposure to the real-world issues related to the practice of civil engineering.

While this civil engineering practice experience was originally planned to be part of the Junior Engineering Clinics, the decision was made by the civil engineering faculty to separate these experiences in order to allow the civil engineering practice seminars and workshops to be conducted specifically for civil engineering students. These seminars and workshops will be conducted by the civil engineering faculty and by civil engineering practitioners from southern New Jersey.

3. Essence of the Course:

a) Objectives:

Upon completion of this senior-level course, civil engineering students will have a working knowledge of several critical issues related to civil engineering practice including:

- the preparation of bid specifications and related documents
- the preparation and interpretation of contracts
- the requirements for performance bonds
- the preparation of engineering estimates
- the management of engineering projects
- the tracking of project costs
- the creation and management of project schedules
- the ethical responsibilities of civil engineers

b) Topical Outline:

The seminars and workshops will be chosen by the civil engineering faculty to give the students the most meaningful exposure possible to civil engineering practice issues including many of the following topics:

- bid specifications and documents
- contracts and performance bonds
- engineering estimates and cost engineering
- engineering management and project scheduling
- professional ethics and responsibilities

c) Evaluation and Grading Procedure of Students:

The evaluation of students will be conducted on the basis of in-class and out-of-class exercises assigned as part of each civil engineering practice seminar or workshop.

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 civil engineering curricula that were approved in June 1996, and the latest civil engineering curricula that have been approved by the civil engineering faculty.

Catalog Description:

Civil Engineering Design Practice (0908.490)

Prerequisites: Civil Engineering Systems (0908.305)

This sequence of seminars and workshops is designed to give civil engineering students meaningful exposure to several critical topics related to the real-world practice of civil engineering. Topics covered will include bid specifications and documents, contracts and performance bonds, engineering estimates and cost engineering, engineering management and project scheduling, and professional ethics and responsibilities.