Course Change Proposal
Form A

Academic Group (College): Engineering and Computer Science
Academic Organization (Department): Civil Engineering
Date: 8/29/11

Type of Course Proposal:
New _ Change _x_ Deletion ___

Department Chair: Ramzi Mahmood
submitted by: Karen Lee Hansen

Does this course fulfill a requirement for single-subject or multiple subject credential students? Yes ___ No _x_

For Catalog Copy: Yes _x_ No ___
CCE (Extension): Yes ___ No _x_

Semester Effective: Fall ___ Spring _x__, 2012__

This course replaces experimental course Subject Area (prefix) and Catalog Nbr (course number):
Yes _x_ No ___

If changing an existing course, should new version be considered a repeat of the original version? If so, the same Course ID will be maintained. If not, a new Course ID will be assigned. Note: In PeopleSoft terminology, the Course ID is the unique system identifier, not the Catalog Nbr.

Change from:
Subject Area (prefix) & Catalog Nbr (course no.): CE 146
Title: Civil Engineering Practice
Units: 3

Change to:
Subject Area (prefix) & Catalog Nbr (course no.): CE 146
Title: Civil Engineering Professional Practice
Units: 3

JUSTIFICATION:

Addition of the word “professional” to the class title emphasizes the role of this class in the curriculum. This is important for the accreditating agency (ABET) who requires a component of professional practice education.

The current description reads: Prerequisite: CE 001A, CE 101; both may be taken concurrently. CE 146 is a prerequisite to several other required classes in the major. It was desired to set a “pacing” prerequisite to assure that junior level students took the class. This was the purpose of CE 101, which is typically a first-semester junior class. The problem is that transfer students who cannot get into CE 101 because of space limitations are now barred from taking CE 146, which consequently delays their admission to other classes in the major. ENGR 30 is a second-semester sophomore class which transfer students will have normally completed at the community college. Replacing CE 101 with ENGR 30 will allow new, junior-level transfer students to take CE 146 whether or not there is room in CE 101.

NEW COURSE DESCRIPTION: (Not to exceed 80 words, and language should conform to catalog copy. See http://www.csus.edu/um/Manual/Acad.htm - Guidelines for Catalog Course Description

CE 146. Civil Engineering Professional Practice. Introduction to the legal and business environment of professional engineering practice, including legal responsibilities of professionals, ethics, risk and liability, types and use of contracts, specifications, the construction bid process, and environmental responsibilities. Elements of engineering organizations such as business economics, human resources, and project management. Prerequisite: CE 1A, ENGR 30; CE 1A may be taken concurrently. Graded: Graded Student.
Units: 3.0

Note:

Prerequisite: CE 1A, ENGR 30; CE 1A may be taken concurrently.
Enforced at Registration: Yes _x_ No ___

Corequisite:
Enforced at Registration: Yes ___ No ___

Graded: Letter _x_ Credit/No Credit ___
Instructor Approval Required? Yes ___ No _x_

Course Classification (e.g., lecture, lab, seminar, discussion):
lecture

Title for CMS (not more than 30 characters)
Civil Engr Prof Practice

Cross Listed?
Yes ___ No _x__
If yes, do they meet together and fulfill the same requirement, and what is the other course?

How Many Times Can This Course Be Taken for Credit? ___1___

Can the course be taken for Credit more than once during the same term? Yes ___ No _x_
FOR NEW COURSE PROPOSALS OR SUBSTANTIVE CHANGES ONLY:

**Description of the Expected Learning Outcomes:** Describe outcomes using the following format: "Students will be able to: 1), 2), etc."
See the example at [http://www.csus.edu/acaf/example.htm](http://www.csus.edu/acaf/example.htm)

**Assessment Strategies:** A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above:

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**For whom is this course being developed?**

- Majors in the Dept _x_  
- Majors of other Depts ___  
- Minors in the Dept ___  
- General Education ___  
- Other ___

- Is this course required in a degree program (major, minor, graduate degree, certificate)? _x_ Yes ___ No ___

- If yes, identify program(s): Civil Engineering

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Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer facilities, faculty, etc.)? Yes ___ No _x_

If yes, attach a description of resources needed and verify that resources are available.

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Indicate which department or programs will be affected by the proposed course (if any).

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_The Department Chair's signature below indicates that affected programs have been sent a copy of this proposal form._

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**Accessibility:** Following course approval, and prior to the start of the semester in which the new or revised course will be taught for the first time, an accessibility checklist [available at [http://www.csus.edu/accessibility/checklist.html](http://www.csus.edu/accessibility/checklist.html)] shall be completed and submitted to the appropriate Dean's office. An accessible syllabus shall also be made available online, preferably prior to the start of that semester's open registration period.

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**Approvals:** If proposed change, new course or deletion is approved, sign and date below. If not approved, forward without signing to the next reviewing authority, and attach an explanatory memorandum to the original copy.

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<table>
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<th>Signatures:</th>
<th>Date</th>
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<tbody>
<tr>
<td>Department Chair:</td>
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<td>College Dean or Associate Dean:</td>
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<td>CPSP (for school personnel courses ONLY)</td>
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<td>Associate Vice President and Dean for Academic Programs</td>
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Distribution: Academic Affairs (original), Department Chair and College Dean. Dean's office to send original after approval to Academic Affairs, at mail zip 6016. An electronic copy must also be sent.

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5/20/2010
CE 146
Civil Engineering Professional Practice
Course Syllabus

Fall 2011

Section 01: M, W Noon – 1:15PM
Academic Resource Center (ARC) 3004

Section 02: M, W 6:00PM – 7:15PM
Riverside Hall 1012

Instructor: Dr. Karen Lee Hansen
Email: hansenk@ecs.csus.edu
Riverside Hall 4042
CE 146 – Civil Engineering Professional Practice
Syllabus

Course Description
Introduction to the legal and business environment of professional engineering practice, including legal responsibilities of professionals, ethics, risk and liability, types and use of contracts, specifications, the construction bid process, and environmental responsibilities. Elements of engineering organizations such as business economics, human resources, and project management also will be addressed. 3 units.

Prerequisites
CE 001A, may be taken concurrently. Please note that this course is oriented for students majoring in Civil Engineering or Construction Management. Students in Mechanical Engineering or other majors should check with their department prior to enrolling.

Specific Learning Outcomes
After completing this course, students should be able to:
- Understand the organization and the fundamental contents of contracts and specifications
- Appreciate the legal infrastructure in this country
- Describe the role of the design professional in the project development process
- Understand the origin of conflicts so that they can be avoided
- Describe the various roles that the civil engineer plays in construction projects
- Work productively individually as well as a member of a team

Additionally, students should have:
- Developed a heightened sensitivity to ethical and professional issues
- Learned how the legal world views construction disputes
- Reached a better understanding of the legal consequences of the decisions that design professionals face
- Further developed their written and oral communication skills

Textbook (Required)

Class Sessions
Class sessions of one hour-fifteen minutes in length will be held two times weekly. This time will be devoted to a combination of instruction and work on selected projects and presentations. Work will be evaluated on correctness, thoroughness, and demonstrated comprehension of the subject matter.

Examinations
Two mid-term examinations will be given during the semester as noted on the attached Tentative Instruction Schedule. Each examination will be equal to twenty percent of the course grade. A comprehensive final exam also will be given. The comprehensive final exam will comprise twenty-five percent of the course grade.

CE 146 – Civil Engineering Professional Practice
Dr. Karen Lee Hansen
Academic Honesty and Grading System

All students are subject to the policies described in the University Catalogue. In particular, students should be familiar with the policies relating academic dishonesty and grading.

Grades will be assigned in accordance with the grading policy of the university as outlined in the section entitled "Grading System" in the current copy of the University Catalog. Any instance of academic dishonesty will result in a grade of “F” for the course and all other sanctions as applicable by the current university policy. Academic dishonesty includes, but is not limited to, copying another student’s work (such as an electronic file with minor modifications and submitting it as your own work) and plagiarism.

Assignment of final grades will be based on a distribution of students’ scores weighted as noted below.

Use of Electronic Devices

Per CE Department policy, the only calculators that will be allowed for all quizzes, tests and exams are:

- **Casio**: All fx-115 models; any Casio calculator with fx-115 in its model name is allowed.
- **Hewlett Packard**: The HP 33s and HP 35s models are allowed. No other Hewlett Packard models are allowed.
- **Texas Instruments**: All TI-30X and TI-36X models are allowed; any Texas Instruments calculator with TI-30X or TI-36X in its model name is allowed.

Late Submission of Assignments

Adequate time will be allowed for the completion of course assignments. Assignments submitted one class after they are due will be graded down 10%. Assignments more than one class late will not be accepted.

Field Work

On one day, students will be required to perform an assignment involving independent research and/or project work. On this day(s), class will not meet at the regularly scheduled time.

Class Participation

Since the nature of the topics covered in the course is conducive to active discussions between students and the instructor, and among students, visible and active class participation is expected and required. Different ways of visibly participating in the course include, but are not limited to:

- contributing in an active way to class discussion of concepts and ideas;
- presenting a brief summary and/or personal interpretation of reading materials upon the instructor's request; or
- answering correctly specific questions posed by the instructor and/or other students during the lecture. If on given occasions participation is not voluntary, the instructor may resort to random selection of students and/or pop quizzes.

A respectful atmosphere in the classroom will be maintained at all times.

Evaluation of Students’ Performance

Grades will be weighted as follows:

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<td>Assignments</td>
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<td>First and second midterm exams</td>
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