



SACRAMENTO
STATE

Course Change Proposal Form A



Academic Group (College): Engineering & Computer Science	Academic Organization (Department): Civil Engineering	Date: 3/12/09
Type of Course Proposal: New <input checked="" type="checkbox"/> Change <input type="checkbox"/> Deletion <input type="checkbox"/>	Department Chair: Ramzi Mahmood	Submitted by: Karen Lee Hansen
Does this course fulfill a requirement for single-subject or multiple subject credential students? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	For Catalog Copy: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CCE (Extension): Yes <input type="checkbox"/> No <input type="checkbox"/>	Semester Effective: Fall <input type="checkbox"/> Spring <input checked="" type="checkbox"/> , 2010 <input type="checkbox"/>

This course replaces experimental course Subject Area (prefix) and Catalog Nbr (course number):	CE 296B
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.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Change from:

Subject Area (prefix) & Catalog Nbr (course no.): CE 296B	Title: Project Management for Civil Engineers	Units: 3
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Change to:

Subject Area (prefix) & Catalog Nbr (course no.): CE 289	Title: Project Management for Civil Engineers	Units: 3
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JUSTIFICATION:

The American Society of Civil Engineers (ASCE) has made a concerted effort to work with ABET in order to assure that Civil Engineering education anticipates and responds to the profession's evolving needs. The ASCE has formed several task forces over the last decade not only to address these needs in the present but also to foresee significant trends. The first and second editions of the ASCE's *Civil Engineering Body of Knowledge for the 21st Century* (BOK1-2004 and BOK2-2008) stress the need for change in the way Civil Engineers practice their profession and in the way they are educated. Specific areas highlighted include: 1) an understanding of the elements of project management, construction, and asset management; and 2) an understanding of the role of the leader and leadership principles and attitudes. This graduate course responds to these needs and should be of interest to all civil engineering graduate students.

NEW COURSE DESCRIPTION: (Not to exceed 80 words, and language should conform to catalog copy. See <http://www.csus.edu/umanual/acad.htm> - Guidelines for Catalog Course Description)

Theory and practice of project management in civil engineering. Interrelationship of planning, design, and construction. New technologies and techniques in both US and international architectural/engineering/construction (AEC) markets. Topics: project initiation, early estimates, project budgeting, work plans, design proposals, scheduling, tracking, design coordination, construction, project close-out, team and personal management skills, and quality control.

Note:	
Prerequisite: Graduate standing or permission of instructor	
Enforced at Registration: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Corequisite:	
Enforced at Registration: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Graded: Letter <input checked="" type="checkbox"/> Credit/No Credit <input type="checkbox"/>	Instructor Approval Required? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Course Classification (e.g., lecture, lab, seminar, discussion): Lecture	Title for CMS (not more than 30 characters): Proj Mgmt for Civil Engr
Cross Listed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	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? <input type="checkbox"/> 1 <input type="checkbox"/>	
Can the course be taken for Credit more than once during the same term? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

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>

After completing this course, students will be able to:

1. Define project management and explain its importance
2. Describe the interrelationship of scope, budget, schedule, and quality
3. Coordinate design proposal development
4. Identify a range of feasible and contextually appropriate actions for improving the management of civil engineering projects through the use of project controls
5. Build and manage project teams
6. Evaluate various project management techniques and tools in terms of their relative usefulness

**Attach a list of the required/recommended course readings and activities [Note: it is understood that these are updated and modified as needed by the instructor(s).] This attachment should be forwarded only to your Dean's office, not Academic Affairs.

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:

1. Examinations
2. Homework assignments
3. Design or research project
4. Oral presentation

For whom is this course being developed?

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

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

If yes, identify program(s):

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

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

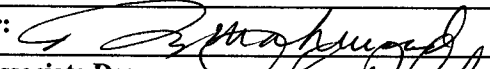
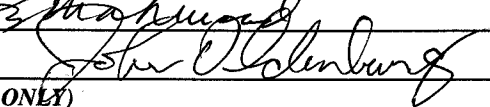
Indicate which department or programs will be affected by the proposed course (if any). N/A

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

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.

Signatures:

Date

Department Chair: 	5/5/2009
College Dean or Associate Dean: 	5/5/09
CPSP (for school personnel courses ONLY)	
Associate Vice President and Dean for Academic Programs	

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.

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

College of Engineering and Computer Science

Department of Civil Engineering and Construction Management Program



CE 289
Project Management in Civil Engineering
Course Syllabus

Spring 2009

Monday and Wednesday 6:00 – 7:15 PM
Riverside Hall 1012

Instructor: Dr. Karen Lee Hansen
Email: hansenk@ecs.csus.edu

Office Hours:
Room 4024 Riverside
Monday and Wednesday 10:30 – 11:50 AM
and by appointment

CE 289 - Project Management in Civil Engineering

Dr. Karen Lee Hansen

Syllabus

Course Description

This course provides an introduction to the theory and practice of the principles of project management in civil engineering. The interrelationship of planning, design, and construction is stressed. Emphasis is placed on new technologies and techniques used in both the domestic and international Architectural, Engineering, and Construction (A/E/C) Industry. Course activities include a combination of lectures, in-class discussions and exercises, and several out-of-class group and individual laboratories, projects, and/or assignments.

Prerequisites

Current standing as a student in the Department Civil Engineering Graduate Program.

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 on Academic Honesty described in the most recent CSUS Catalogue.

General Course Objectives

This course is designed to introduce students to approaches used for solving problems and making decisions related to the management of civil engineering projects. Among other things, the course will familiarize students with concepts related to project economics, contractual and legal considerations, design-build contracting, organizational behavior, and quality improvement. The course also will:

- acquaint students with the principal theories and techniques used in project management; and
- develop and strengthen specific skills associated with managing project teams, planning, budgeting, estimating, scheduling, and using other project controls.

Specific Learning Outcomes

After completing this course, students should be able to:

1. define project management and explain its importance
2. describe the interrelationship of scope, budget, schedule, and quality
3. coordinate design proposal development
4. identify a range of feasible and contextually appropriate actions for improving the management of civil engineering projects through the use of project controls
5. understand how to build and manage project teams
6. evaluate various project management techniques and tools in terms of their relative usefulness

Required Textbook

Oberlende, Garold D. (2000). *Project Management for Engineering and Construction*. McGraw Hill, New York. ISBN: 0-07-048150-4.

Lectures and Required Readings

The lectures provide the conceptual framework for the course. They are supplemented with a list of required readings specifically announced (or handed out) in class by the instructor as the

semester evolves. Students will be expected to complete the assigned readings in advance of the associated lectures, so that the class discussion will be more meaningful, and also, so that the instructor can answer in class any questions which may arise. Local and international projects will be used extensively in classroom examples and project assignments. Guest lectures describing industry challenges will provide additional information.

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.

Assignments

Throughout the semester, students will complete several non-graded and graded activities. Student will prepare a staffing plan, budget, estimate, schedule, and other project controls during the semester. These activities will complement selected concepts covered in the course. They will provide an opportunity to strengthen professional, written, and oral communication skills. All instructions and relevant material for each activity will be announced, distributed, and discussed in class.

Evaluation of Students' Performance

Assignment of final grades will be based on graded assignments, two quizzes, one examination, and a final project. The quizzes and examination will test the individual student's understanding of the principal concepts covered in the course, including material contained in the textbook, material discussed in the lectures, and material included in selected resources for the class. If the quizzes or exam is missed as a result of an excused absence, they need to be made up. Grades will be weighted as follows:

Class Participation and Exercises	40%
Two quizzes	20%
Final examination	20%
Final Project	20%
Total	100%

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.