Course Change Proposal
Form A

<table>
<thead>
<tr>
<th>Academic Group (College):</th>
<th>Academic Organization (Department):</th>
<th>Date: 09/13/2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering &amp; Computer Science</td>
<td>Civil Engineering</td>
<td></td>
</tr>
<tr>
<td>Type of Course Proposal:</td>
<td>Department Chair:</td>
<td>Submitted by:</td>
</tr>
<tr>
<td>New ___ Change X ___ Deletion ___</td>
<td>Dr. Ramzi Mahmoud</td>
<td>Dr. Cyrus Aryani</td>
</tr>
<tr>
<td>Does this course fulfill a requirement for single-subject or multiple subject credential students?</td>
<td>For Catalog Copy:</td>
<td>Semester Effective:</td>
</tr>
<tr>
<td>Yes ___ No X</td>
<td>Yes X No ___</td>
<td>Fall X Spring ___, 2008</td>
</tr>
<tr>
<td>CCE (Extension):</td>
<td>Yes ___ No X</td>
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This course replaces experimental course Subject Area (prefix) and Catalog Nbr (course number):

Change from:

<table>
<thead>
<tr>
<th>Subject Area (prefix) &amp; Catalog Nbr (course no.):</th>
<th>Title:</th>
<th>Units:</th>
</tr>
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<tbody>
<tr>
<td>CE 283</td>
<td>Ground Modification Engineering</td>
<td>3</td>
</tr>
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Change to:

<table>
<thead>
<tr>
<th>Subject Area (prefix) &amp; Catalog Nbr (course no.):</th>
<th>Title:</th>
<th>Units:</th>
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JUSTIFICATION:

Update course description

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

Principles of soil stabilization and earth reinforcement; mechanical compaction and treatment of difficult soils, including expansive soils, collapsible soils, oversize materials, and compressible fill; prefabricated vertical drains and preloading; dynamic deep compaction; vibro-compaction; vibro-replacement; rammed aggregate pier; compaction grouting; jet grouting; slurry grouting; chemical grouting; deep soil mixing; slurry trench walls. Prerequisite: CE 171A or equivalent. 3 units.

Note:

Prerequisite: CE 171A or equivalent
Enforced at Registration: Yes X No
Corequisite:
Enforced at Registration: Yes No

CAN (California Articulation Number):

<table>
<thead>
<tr>
<th>Graded: Letter</th>
<th>X _ _ _</th>
<th>Credit/No Credit</th>
<th>Instructor Approval Required?</th>
<th>Yes ___ No X</th>
</tr>
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<tbody>
<tr>
<td>Course Classification (e.g., lecture, lab, seminar, discussion):</td>
<td>Seminar</td>
<td>Title for CMS (not more than 30 characters)</td>
<td>Ground Modification Engr</td>
<td></td>
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<td>Cross Listed?</td>
<td>Yes ___ No X</td>
<td>If yes, do they meet together and fulfill the same requirement, and what is the other course.</td>
<td></td>
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<tr>
<td>How Many Times Can This Course be Taken for Credit?</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Can the course be taken for Credit more than once during the same term?</td>
<td>Yes ___ No X</td>
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</table>
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/acad/example.htm

**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:

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).

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: 9/21/04

Department Chair: __________________________

College Dean or Associate Dean: __________________________ Date: 9/21/04

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

COURSE APPROVAL CHECKLIST

Please answer all questions (enter NA if not applicable)

1. Course number and title: CE 283

2. Old course number and title: Same

3. Name of person in charge: Dr. Ramzi Mahmood

4. Is the course X required _____ elective _____ service/GE

5. Check as appropriate: _____ new _____ change from 96/196/296
   _____ Change in description to reflect change in content
   _____ Change in prerequisite
   _____ Change in course format (e.g. lectures to lecture/lab)
   X _____ Minor editing change in description
   _____ Change in number
   _____ Change in title

6. If offered as 96/196/296: _____ number of times _____ average enrollment

7. Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer facilities, faculty, etc.)? No If yes, attach description of resources needed, including lab room number if appropriate, and verify that these resources are available.

8. For all changes (except change in number, title, or minor editing change in description), attach and check off here:
   _____ detailed syllabus _____ Justification _____ old description

9. If there are related course changes, state numbers here and submit as a package:

10. Date of department curriculum committee approval (if any):

11. Date of department faculty approval (if any): 9/14/2007

FOR NEW COURSES (Including changes from 96/196/296):

Is the course related to or similar to any existing course? _____ If so, include explanation with justification.

Describe the target group of students.

NOTE:

1. Syllabus should include title, author and date of text, name of instructor, main topics, amount or percentage of time devoted to each, description of special features such as term projects, and ABET or CAC content category.

2. For required courses the justification must indicate how the new course fits into the overall curriculum and why changes are being made or the new course is being added.