



SACRAMENTO  
STATE

# Course Change Proposal Form A



<b>Academic Group (College):</b> Engineering and Computer Science	<b>Academic Organization (Department):</b> Civil Engineering	<b>Date:</b> 17 Sept 07
<b>Type of Course Proposal:</b> New ___ Change <u>X</u> Deletion ___	<b>Department Chair:</b> Ramzi Mahmood	<b>Submitted by:</b> Ramzi Mahmood
<b>Does this course fulfill a requirement for single-subject or multiple subject credential students? Yes ___ No <u>x</u></b>	<b>For Catalog Copy: Yes <u>x</u> No ___</b> <b>CCE (Extension): Yes ___ No <u>x</u></b>	<b>Semester Effective:</b> Fall <u>x</u> Spring __, 20_08__

This course replaces experimental course Subject Area (prefix) and Catalog Nbr (course number):

**Change from:**

<b>Subject Area (prefix) &amp; Catalog Nbr (course no.):</b> CE 139	<b>Title:</b> Hydraulic Flow Design	<b>Units:</b> 3
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**Change to:**

<b>Subject Area (prefix) &amp; Catalog Nbr (course no.):</b> CE 139	<b>Title:</b> Open Channel Hydraulics	<b>Units:</b> 3
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**JUSTIFICATION:**

Title change: This was done to more accurately communicate the content of the course.

Prerequisite Change

From: CE 137, may be taken concurrently

To: CE 137

CE 137 introduces the topics that are covered in greater depth in this technical elective course. To accommodate students taking CE 137 concurrently (the old prerequisite), a significant fraction of time in this class had to be given to CE 137 topics. By requiring students to finish CE 137 before taking this course, this duplication of coverage is eliminated and more time will be available for advanced topics in this course.

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

Civil Engineering design problems in open channel flow. Model design, pressure problems, design application of hydraulic analysis in structures, transitions, culverts, weirs and spillways. Channel design including roughness for subcritical and supercritical flow. Analyzes and design problems in steady, uniform, gradually and rapidly varied flow. Prerequisite: CE 137; may be taken concurrently.

**Note:**

**Prerequisite:** CE 137

**Enforced at Registration:** Yes x No \_\_\_

**Corequisite:**

**Enforced at Registration:** Yes \_\_\_ No \_\_\_

**CAN (California Articulation Number):**

**Graded:** Letter X Credit/No Credit \_\_\_

**Instructor Approval Required?** Yes \_\_\_ No X

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

**Title for CMS (not more than 30 characters)**  
OPEN CHANNEL HYDRAULICS

**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>

**\*\*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.

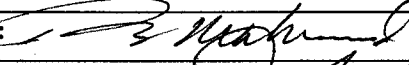
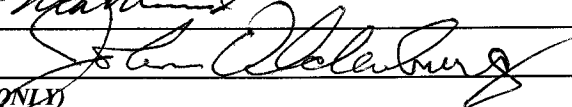
Indicate which department or programs will be affected by the proposed course (if any). \_\_\_\_\_

*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**

<b>Department Chair:</b> 	9/17/07
<b>College Dean or Associate Dean:</b> 	11/16/07
<b>CPSP (for school personnel courses ONLY)</b>	
<b>Associate Vice President and Dean for Academic Programs</b>	

**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.