



Academic Affairs - Course Proposal Form

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

Academic Unit: Mechanical Engineering		Department Chair: Robin Bandy	
Type of Course Proposal: New <input checked="" type="checkbox"/> Change <input type="checkbox"/> Deletion <input type="checkbox"/>		Date: October 20, 2006	
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: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Semester Effective: Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> 2007 <input type="checkbox"/>	
Prefix & No. ENGR 96D	Title: Engineering Materials Workshop		Units: 1

Change to:

Prefix & No. ENGR 45W	Title:	Units:
-------------------------------------	---------------	---------------

JUSTIFICATION:

ENGR 45 is a computationally extensive course and the students need more help in problem solving. A formal workshop structure will facilitate students' acquisition of the appropriate problem solving technique. This course was offered in the last two semesters and was well received by the students. The enrollment was 27 each time. The course no. should be changed to conform to other ENGR workshop courses.

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)

Problem solving and discussion of topics in materials science to enhance students' understanding of subject matter. Activity two hours.

Note: Can not be used for degree requirement

Prerequisite:

Corequisite: ENGR 45

CAN (California Articulation Number):

Graded: Letter Credit/No Credit

Instructor Approval? Yes No

Course Classification: 13

Title for SIS+ (not more than 25 characters)
Materials Science Workshop

Cross Listed?
Yes No

If yes, with what course:

How Many Times Can This Course be Taken for Credit?
One

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>

Students in ENGR 45 learn fundamentals of bonding, crystal structure, diffusion, phase diagrams, metals, ceramics, polymers, composites, electrical properties and corrosion. The ENGR 45W workshop will reinforce and improve student learning so that students will be able to:

- 1.) Understand, retain and explain the principles learned in ENGR 45 lectures.
- 2.) Formulate, define, solve and analyze materials science problems.

**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:

Student attendance and participation in the workshops will be used to assess student success.

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

Department Chair:	
College Dean or Associate Dean:	
CPSP (for school personnel courses ONLY)	
Director of Curriculum, Assessment & Accreditation (for the Vice President for Academic Affairs)	

Distribution: Academic Affairs (original and two copies) Department Chair and College Dean. A copy of this form should be e-mailed, along with the hard copies, as an attachment to wylie@csus.edu by the Dean's office after it is approved at that level.