



Academic Affairs - Course Proposal Form

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

Academic Unit: Mechanical Engineering		Department Chair: Robin Bandy	
Type of Course Proposal: New <input type="checkbox"/> Change <input type="checkbox"/> Deletion <input type="checkbox"/>		Date: March 2, 2006	
Does this course fulfill a requirement for single-subject or multiple subject credential students? Yes ___ No <input checked="" type="checkbox"/>		For Catalog Copy: Yes <input checked="" type="checkbox"/> No ___	CCE: Yes ___ No <input checked="" type="checkbox"/>
		Semester Effective: Fall <input checked="" type="checkbox"/> Spring ___ 2006 ___	
Prefix & No. ENGR 124W	Title: Thermodynamics Workshop		Units: 1

Change to:		
Prefix & No.	Title:	Units:

JUSTIFICATION:

ENGR 124 students have requested additional office hours and problem sessions because the material in this course is complex and 50 minute lectures do not provide enough time to present new material in addition to completely presenting a variety of problem solutions. A formal workshop structure will facilitate students' acquisition of the appropriate problem solving techniques.

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 thermodynamics to enhance students' understanding of subject matter. Activity two hours.

Note:

Prerequisite:

Corequisite: ENGR 124

CAN (California Articulation Number):

Graded: Letter ___ Credit/No Credit **Instructor Approval? Yes ___ No**

Course Classification: 13 **Title for SIS+ (not more than 25 characters)**
Thermodynamics 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>

In ENGR 124, students learn the fundamentals of Thermodynamics processes and how to apply those fundamentals to solve real-world problems. The ENGR124 workshop will reinforce and improve student learning so that students will be able to:

- 1.) Understand, retain and explain the principles learned in ENGR124 lecture.
- 2.) Formulate, define, solve and analyze thermodynamics problems.
- 3.) Build self-confidence by repeatedly solving complicated thermodynamics problems with a systematic, step-by-step approach.
- 4.) Locate sources of information on thermodynamics and direct their own learning to solve any thermodynamics problem of their interest.

**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.