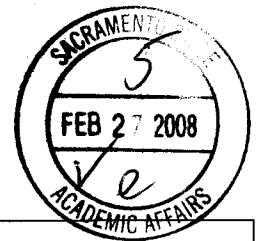




SACRAMENTO
STATE

Course Change Proposal Form A



Academic Group (College): Natural Science & Mathematics	Academic Organization (Department): Bio Sci/Marine Sciences	Date: January 22, 2008
Type of Course Proposal: New <input checked="" type="checkbox"/> Change <input type="checkbox"/> Deletion <input type="checkbox"/>	Department Chair: Nicholas Ewing MLML: Kenneth Coale/Jim Harvey	Submitted by: Nicholas Ewing
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 checked="" type="checkbox"/>	Semester Effective: Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/>, 2009

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

Subject Area (prefix) & Catalog Nbr (course no.):	Title:	Units:

Change to:

Subject Area (prefix) & Catalog Nbr (course no.): MSCI 281	Title: Coastal Dynamics	Units: 4.0
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JUSTIFICATION:

This course adds to the breath of coverage of courses at MLML and addresses key issues in the ecology of the California coast. Note: The MLML Governing Board approved this course upon the recommendation of the MLML Curriculum Committee.

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)

This course addresses the oceanographic dynamics of coastal environments, within an emphasis on eastern boundary current systems influenced by coastal upwelling. This course focuses on how physical and geological oceanography interact with each other and how both affect coastal ecosystem dynamics.

Note:

Prerequisite: Graduate Standing and MS 142 (Physical Oceanography) or MS141 (Geological Oceanography).
Enforced at Registration: Yes No

Corequisite: None
Enforced at Registration: Yes No

CAN (California Articulation Number):

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

Course Classification (e.g., lecture, lab, seminar, discussion):
Lecture C-2

Title for CMS (not more than 30 characters):
Coastal Dynamics

Cross Listed?
Yes No

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? once

Can the course be taken for Credit more than once during the same term? Yes No

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 will gain an understanding of the primary dynamics forcing coastal circulation phenomena, upwelling, waves, sediment transport, continental margin sediment budgets, sea level change, and coastal geomorphology.

Students will gain enough familiarity with the field to read primary sources in the coastal physical oceanographic and marine geology literature and understand the temporal and spatial/geographic scales of the dynamics discussed in these papers. This will empower students to critically assess the importance that various types of oceanographic forcing may have on their own graduate research.

Students will gain experience in quantitative analysis of oceanographic time series data, using tools such as MATLAB, and will be able to apply these skills and concepts to research in their own fields.

Students will gain hands-on experience with shipboard oceanographic data collection, sediment coring, grain size analysis, and mapping skills. They will write up and present analyses of resulting data, thereby gaining valuable public speaking experience.

****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:

Assessment will be conducted by examinations (two mid-terms and one final), homework and laboratory assignments, and a final project (which requires both a written paper and an oral presentation). Over 35% of the class grade is associated with writing assignments.

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


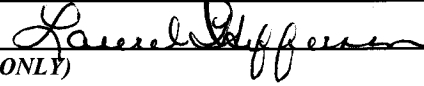
If yes, attach a description of resources needed and verify that resources are available.

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: 	2/14/08
College Dean or Associate Dean: 	2/25/08
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.