# Course Change Proposal

## Form A

<table>
<thead>
<tr>
<th>Academic Group (College): NS&amp;M</th>
<th>Academic Organization (Department): Geography</th>
<th>Date: 9/13/07</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Course Proposal:</td>
<td>Department Chair: Thomas Krabacher</td>
<td>Submitted by: Bruce Gervais</td>
</tr>
<tr>
<td>New ___ Change ___ X Deletion</td>
<td>Department Chair: Thomas Krabacher</td>
<td>Submitted by: Bruce Gervais</td>
</tr>
<tr>
<td>Does this course fulfill a requirement for single-subject or multiple subject credential students? Yes ___ No ___ X</td>
<td>For Catalog Copy: Yes ___ X No ___</td>
<td>Semester Effective: Fall ___ 07 Spring ___ 20 ___</td>
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<td></td>
<td>CCE (Extension): Yes ___ No ___ X</td>
<td></td>
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This course replaces experimental course Subject Area (prefix) and Catalog Nbr (course number):

<table>
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<tr>
<th>Change from:</th>
<th>Subject Area (prefix) &amp; Catalog Nbr (course no.): Geography 5</th>
<th>Title: Violent Weather</th>
<th>Units: 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change to:</td>
<td>Subject Area (prefix) &amp; Catalog Nbr (course no.): No Change</td>
<td>Title: Violent Weather/Changing Atmosphere</td>
<td>Units: No change</td>
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**JUSTIFICATION:**

Existing meteorology and climate courses taught in the Geography Department do not emphasize the important topic of Earth’s severe and violent weather phenomena. This course will explore the physical and geographic aspects of Earth’s violent weather as well as the social dimensions of severe weather events, particularly in the context of human-caused climate change.

**NEW COURSE DESCRIPTION:** (Not to exceed 80 words, and language should conform to catalog copy. See http://www.csus.edu/acaf/univmanual/crps1.htm - Guidelines for Catalog Course Description)

This course will provide an introduction to meteorological and climatological principles and concepts. These principles will be used to examine severe atmospheric phenomena, including hurricanes, tornadoes, thunderstorms, lightning, destructive winds, severe storms, heat waves, droughts and floods, particularly in relation to human-caused climate change and the effects of these phenomena on humanity. Lecture 3 hours. 3 units.

**Note:**

- Prerequisite:
  Enforced at Registration: Yes ___ No ___ X

- Corequisite:
  Enforced at Registration: Yes ___ No ___ X

**CAN (California Articulation Number):**

- Graded: Letter ___ X Credit/No Credit ___
- Instructor Approval Required? Yes ___ No ___ X
- Course Classification (e.g. lecture, lab, seminar, discussion): C-02 (Lecture)
- Title for CMS (not more than 30 characters): Violent Weather/Changing Atmosphere

**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 ___
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, (1) understand the interrelated physical atmospheric and oceanic processes that produce Earth's severe weather and climate; (2) develop an appreciation of the methodologies of science, scientific endeavors and limitations; (3) understand key social dimensions of severe weather phenomena, including the consequences of inaction, and the importance of prevention and planning for severe weather events; (4) apply the knowledge gained here to the enrichment and betterment of students' personal and professional lives through further thinking, learning and exploration.

**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:

1. Individual assignments to demonstrate and review concepts discussed in class and readings.
2. Class debate discussing risk tolerance and disaster preparation and mitigation.
3. Midterm and final examinations based on lecture and reading material.

For whom is this course being developed?
Majors in the Dept ___ Majors of other Depts ___ Minors in the Dept ___ General Education ___ X ___ Other ___

Is this course required in a degree program (major, minor, graduate degree, certificate)? Yes ___ No ___ X

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 ___ X

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): _____________________ 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.