### Course Change Proposal

**Form A**

<table>
<thead>
<tr>
<th>Academic Group (College):</th>
<th>Natural Sciences &amp; Mathematics</th>
<th>Academic Organization (Department):</th>
<th>Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td></td>
<td>Date: 9/17/07</td>
<td></td>
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<tr>
<td>Type of Course Proposal:</td>
<td>New X Change Deletion</td>
<td>Department Chair: Susan Crawford</td>
<td></td>
</tr>
<tr>
<td>Does this course fulfill a requirement for single-subject or multiple subject credential students?</td>
<td>Yes X No</td>
<td>Submitted by: Mary McCarthy Hintz</td>
<td></td>
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<tr>
<td>For Catalog Copy:</td>
<td>Yes X No</td>
<td>Semester Effective:</td>
<td></td>
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<tr>
<td>CCE (Extension):</td>
<td>Yes X No</td>
<td>Fall X Spring 2008</td>
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</table>

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

**Change from:**

<table>
<thead>
<tr>
<th>Subject Area (prefix) &amp; Catalog Nbr (course no.):</th>
<th>Title:</th>
<th>Units:</th>
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**Change to:**

<table>
<thead>
<tr>
<th>Subject Area (prefix) &amp; Catalog Nbr (course no.):</th>
<th>Title:</th>
<th>Units:</th>
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</table>

**JUSTIFICATION:**

No changes will be made in the content, teaching, or assessment of this course. The current course description ("Chemistry and metabolism of carbohydrates, lipids, proteins, nucleic acids, enzymes and hormones") is too broad. The proposed course description provides more detailed information about the course content.

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

CHEM 161. General Biochemistry. Introduction to the structure and function of biological molecules (carbohydrates, lipids, proteins, nucleic acids, enzymes and hormones), enzyme kinetics, the structure and function of membranes, and the bioenergetics and regulation of major anaerobic and aerobic metabolic pathways. Prerequisite: CHEM 020 or CHEM 124; one year of biological science is recommended. 3 units.

Note:

Prerequisite: CHEM 020 or CHEM 124; one year of biological science is recommended. 3 units

Enforced at Registration: Yes X No

Corequisite:

Enforced at Registration: Yes X No

CAN (California Articulation Number):

Graded: Letter X Credit/No Credit

Instructor Approval Required? Yes X No

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

CI

Title for CMS (not more than 30 characters)

General Biochemistry

Cross Listed?

Yes X 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? 1

Can the course be taken for Credit more than once during the same term? Yes X 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

**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:

<table>
<thead>
<tr>
<th>Department Chair:</th>
<th>College Dean or Associate Dean:</th>
<th>CPSP (for school personnel courses ONLY)</th>
<th>Associate Vice President and Dean for Academic Programs</th>
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<tr>
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<tr>
<td>Date: 9/19/07</td>
<td>Date: 9/20/07</td>
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</tbody>
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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.

8/27/07