### Course Change Proposal

**Form A**

**Academic Group (College):** Natural Sciences and Math  
**Academic Organization (Department):** Chemistry  
**Date:** 9/5/07  
**Submitted by:** Linda Roberts  
**Department Chair:** Susan Crawford  
**Semester Effective:** Fall ___ Spring _X_ 2008

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

<table>
<thead>
<tr>
<th>Change from:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Area (prefix) &amp; Catalog Nbr (course no.):</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**JUSTIFICATION:**

Minor correction to course description (removed the word "describes").

**NEW COURSE DESCRIPTION:** (Not to exceed 80 words, and language should conform to catalog copy. See http://www.csus.edu/acaf/univmanual/crsps1.htm - Guidelines for Catalog Course Description)

**CHEM 160A.** Structure and Function of Biological Molecules. The chemistry and biochemistry of amino acids, proteins, nucleic acids, lipids and carbohydrates. Also includes enzyme kinetics, the structure and function of biological membranes and discussion of some common laboratory methods. Lecture 3 hours. **Prerequisite:** CHEM 124; MATH 26A or MATH 30 recommended. Fall only. 3 units.

**Note:**

- **Prerequisite:** CHEM 124; MATH 26A or MATH 30 recommended
- **Enforced at Registration:** Yes _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):** CI  
- **Title for CMS (not more than 30 characters):** Biochemistry of Macromolecules  
- **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?** Once  
- **Can the course be taken for Credit more than once during the same term?** Yes _No X_
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>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Susan J. Crawford</td>
<td>9/19/07</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>College Dean or Associate Dean:</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daniel Jefferies</td>
<td>9/20/07</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CPSP (for school personnel courses ONLY)</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Associate Vice President and Dean for Academic Programs</th>
<th></th>
</tr>
</thead>
</table>

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