Program Proposal
Form B

Academic Group (College): NSM
Date of Submission to College Dean: 9/28/2011

Academic Organization (Department): Chemistry
Requested Effective: Fall __, Spring __, 2012 __.

Department Chair: Linda Roberts
Contact if not Department Chair:

Title of the Program (Please be specific; indicate minor, undergraduate or graduate degree, etc.):
Master of Science in Chemistry, Biochemistry concentration

Type of Program Proposal:

__X__ Modification in Existing Program:
   __X__ Substantive Change
   __   Non-Substantive Change
   __   Deletion of Existing Program

__   New Programs
   __   Initiation (Projection) of New Program on to Master Plan
   __   New Degree Programs
      __   Regular Process
      __   Fast Track Process
      __   Pilot Process
   __   New Minor, Concentration, Option, Specialization, Emphasis
   __   New Certificate Program

PLEASE NOTE: Form B is to be used only as a Cover Form. Additional information is requested for each of the above as noted in the corresponding procedure in the Policies and Procedures for Initiation, Modification, Review and Approval of Courses and Academic Programs found at http://www.csus.edu/umanual/acad.htm.

Briefly describe the program proposal (new or change) and provide a justification.

We are making two changes to our Master of Science in Chemistry, concentration Biochemistry degree, both of which are intended to bring us into compliance with Title V and with CSUS Graduate Program policies. The first of these is to clarify that the minimum number of 200-level seminar units required for the masters degree is eighteen. The second change is to reduce the number of 299 units from eight to six. At the same time, we are increasing the number of 500 units from two to four. Not only does this bring our program into compliance with Graduate Program policies, we believe the increase in 500 units better reflects the time and scope of educational experience involved in writing a thesis.

Approvals:

Department Chair: __________________________ Date: 10/25/2011

College Dean: __________________________ Date: 10/25/11

University Committee: __________________________ Date:

Associate Vice President and Dean for Academic Affairs: __________________________ Date:

09/10/2008
1. **Clarification of total undergraduate units in the degree.** Our current catalog copy does not make clear that a maximum of two undergraduate units are allowed in the master's degree so that our students are in compliance with the CSUS requirement of eighteen 200-level seminar units. We will change the copy by adding the sentence "A maximum of 2 units of upper division undergraduate courses may be used toward fulfilling electives."

2. **Change in distribution of 299/500 units.** The Graduate Program limits 299 units to a maximum of six. To comply with this and at the same time increase the units applied to thesis writing, we propose to change 299 units from eight to six and increase 500 units from two to four.

<table>
<thead>
<tr>
<th>Current catalog copy</th>
<th>Proposed catalog copy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>B. Electives</strong></td>
<td><strong>B. Electives</strong></td>
</tr>
<tr>
<td>Graduate and upper division Chemistry and Biology courses selected with approval of graduate advisor and department chair (e.g. CHEM 221, CHEM 245, CHEM 250, BIO 222, BIO 223, BIO 224, BIO 245).</td>
<td>Graduate and upper division Chemistry and Biology courses selected with approval of graduate advisor and department chair (e.g. CHEM 221, CHEM 245, CHEM 250, BIO 222, BIO 223, BIO 224, BIO 245). A maximum of 2 units of upper division undergraduate coursework may be used toward fulfilling electives.</td>
</tr>
<tr>
<td><strong>C. Completion Requirements (10 units)</strong></td>
<td><strong>C. Completion Requirements (10 units)</strong></td>
</tr>
<tr>
<td>(8) CHEM 299 Special Problems</td>
<td>(6) CHEM 299 Special Problems</td>
</tr>
<tr>
<td>(2) CHEM 500 Culminating Experience</td>
<td>(4) CHEM 500 Culminating Experience</td>
</tr>
</tbody>
</table>