TRANSMITTAL for UNDERGRADUATE PROGRAMS:
Changes or Proposals

I. INFORMATION:

1. Program Title: Biochemistry-Preprofessional
2. Department(s): Chemistry
3. College(s): CAS
4. Proposal prepared by: Karl Peterson Date: 4/15/2014
5. Check all that apply
   - [ ] New program
   - [ ] Existing program
   - [ ] Change in course name
   - [x] Change in number of credits
   - [ ] Change in major
   - [ ] Change in minor
   - [ ] Change in course content
   - [ ] Change in emphasis/option

6. Other Programs/Departments Consulted (Requires letters of comment from all Departments or Programs substantially affected):

7. Catalog year (and semester) of Implementation: Semester FA Year 2014

8. Have all courses in this program been approved? [ ] Yes [x] No

   If “No” which courses have not been approved? CHEM 380

9. Attach Request Narrative
   Include in narrative on attached pages a rationale for the requested changes or creation of program.
   Include clarification concerning any courses that have not yet been approved. If requesting a
   program change also include a listing of course array for both the current and proposed program.

10. UNIT APPROVALS: Requires signatures of all Department Chairs and Deans whose programs will
    be substantially affected by the changes or proposal. Signature lines for the affected Departments and
    Colleges (noted in “6” above), are on the addendum to this form. These signatures should be obtained
    prior to review by all other shared governance levels.

   Department Curriculum Committee Chair (optional) ________________________________
   Signature: Karl Peterson Date: 4/15/14

   Department/Program Chair ________________________________
   Signature: 4/23/14

   College Curriculum Committee Chair ________________________________
   Signature: 4/23/14

   Dean of College ________________________________
   Signature: 4/23/14

   University Curriculum Cmtt. Chair ________________________________
   Signature: Alex Tupa Date: 4/25/14

   Academic Policy & Program Cmtt. Chair ________________________________
   Signature: ________________________________

   Faculty Senate Chair ________________________________
   Signature: ________________________________

   Provost / Vice Chancellor ________________________________
   Signature: ________________________________

   Chancellor ________________________________
   Signature: ________________________________

*NOTE: The master copy of this transmittal & accompanying documents must be filed in the Provost’s office upon
final approval. The Provost’s office will notify all appropriate administrative offices [Registrar, Dean(s), Department
Chair(s)] of approvals & necessary actions to implement changes.
Narrative for Program Change to the Chemistry-ACS, the Biochemistry-ACS, and the Biochemistry-Pre-Professional Programs

These proposed changes result from the creation of a new course, CHEM 380: Chemistry Junior Seminar (1 cr.). The results of this change increases the overall required credits in each of the majors by 1 credit. A comparison of the current Chemistry-ACS, Biochemistry-ACS, and Biochemistry-Pre-Professional programs and the corresponding proposed majors are attached to this document.

The addition of CHEM 380 will allow us to introduce the critical skills of literature searching (e.g., Reaxys, SciFinder, PubMed) and critical reading early in our curriculum, which addresses specific feedback that we obtained from our last accreditation evaluation by the American Chemical Society. Additionally, student will gain professional skills including resume and cover letter writing, searching for internships and jobs, and critical evaluation of seminars.

The Biotechnology Program and the Chemistry Department host student seminars at the same time and location. The Biotechnology Program requires a similar course (BIOT 380: Biotechnology Junior Seminar), and the Chemistry Department feels this course would benefit the chemistry students as well. The additional 1 credit will not significantly increase the total credits to graduate as these broad field majors do not require a minor. The follow table summarizes the current and proposed credit requirements for the different programs:

<table>
<thead>
<tr>
<th></th>
<th>Chemistry-ACS</th>
<th>Biochemistry-ACS</th>
<th>Biochemistry-PreProf.</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education(^1,2)</td>
<td>29-34 cr</td>
<td>29-34 cr</td>
<td>29-34 cr</td>
</tr>
<tr>
<td>Liberal Arts</td>
<td>8-11 cr</td>
<td>8-11 cr</td>
<td>8-11 cr</td>
</tr>
<tr>
<td>Major + RSC</td>
<td>71-74 cr</td>
<td>77-79 cr</td>
<td>68-71 cr</td>
</tr>
<tr>
<td>Total</td>
<td>108-119 cr</td>
<td>114-124 cr</td>
<td>105-116 cr</td>
</tr>
</tbody>
</table>

\(^1\) Note S and SL course will double count with the major. M course will double count with the required supporting courses.

\(^2\) Assumes that the University requirements double counted.

Proposed

<table>
<thead>
<tr>
<th></th>
<th>Chemistry-ACS</th>
<th>Biochemistry-ACS</th>
<th>Biochemistry-PreProf.</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education(^1,2)</td>
<td>29-34 cr</td>
<td>29-34 cr</td>
<td>29-34 cr</td>
</tr>
<tr>
<td>Liberal Arts</td>
<td>8-11 cr</td>
<td>8-11 cr</td>
<td>8-11 cr</td>
</tr>
<tr>
<td>Major + RSC</td>
<td>72-75 cr</td>
<td>78-80 cr</td>
<td>69-72 cr</td>
</tr>
<tr>
<td>Total</td>
<td>109-120 cr</td>
<td>115-125 cr</td>
<td>106-117 cr</td>
</tr>
</tbody>
</table>

\(^1\) Note S and SL course will double count with the major. M course will double count with the required supporting courses.

\(^2\) Assumes that the University requirements double counted.