Submit originals and one copy and electronic copy to Governance/Faculty Senate Office (email electronic copy to fysenat@uaf.edu)

**PROGRAM/DEGREE REQUIREMENT CHANGE (MAJOR/MINOR)**

<table>
<thead>
<tr>
<th>Department</th>
<th>Chemistry &amp; Biochemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prepared by</td>
<td>John Keller</td>
</tr>
<tr>
<td>Email Contact</td>
<td><a href="mailto:ffjwk@uaf.edu">ffjwk@uaf.edu</a></td>
</tr>
</tbody>
</table>

College/School: CNSM  
Phone: 474-6042  
Faculty Contact: ffjwk

See [http://www.uaf.edu/uafgov/faculty/curriculum](http://www.uaf.edu/uafgov/faculty/curriculum) for a complete description of the rules governing curriculum & course changes.

**PROGRAM IDENTIFICATION:**

<table>
<thead>
<tr>
<th>DEGREE PROGRAM</th>
<th>Minor in Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree Level: (i.e., Certificate, A.A., A.A.S., B.A., B.S., M.A., M.S., Ph.D.)</td>
<td>B.S.</td>
</tr>
</tbody>
</table>

**A. CHANGE IN DEGREE REQUIREMENTS:** (Brief statement of program/degree changes and objectives)

Approved changes last were: Change Chem 212 to a 4-cr lec+lab format, and schedule the removal of Chem 313 after 2009-2010. Changes applied for this year are increasing credits of Chem 331 and 322 (Physical Chemistry) from 3 cr to 4 cr.

**B. CURRENT REQUIREMENTS AS IT APPEARS IN THE CATALOG:**

**Minor**  
Chemistry

1. Complete the following:  
   - CHEM F105X—General Chemistry—4 credits  
   - CHEM F106X—General Chemistry—4 credits

2. Complete the following approved electives:  
   - CHEM F212—Chemical Equilibrium and Analysis*—3 credits  
   - CHEM F321 & CHEM F322—Organic Chemistry—6 credits  
   - CHEM F331 & CHEM F332—Physical Chemistry—6 credits

3. Complete two of the following chemistry lab courses:  
   - CHEM F202—Basic Inorganic Chemistry—3 credits  
   - CHEM F313—Chemical Analysis of Dynamic Systems*—2 credits  
   - CHEM F324—Organic Chemistry Lab—4 credits

4. Minimum credits required—22 – 24 credits

* CHEM F324W may be substituted for both of these courses.

Received  
OCT 16 2008  
Dean's Office  
College of Natural Science & Mathematics
C. PROPOSED REQUIREMENTS AS IT WILL APPEAR IN THE CATALOG WITH THESE CHANGES:
(Underline new wording strike-through old-wording and use complete catalog format)

Minor
Chemistry

1. Complete the following:
   CHEM F105X—General Chemistry—4 credits
   CHEM F106X—General Chemistry—4 credits

2. Complete the following approved electives:
   CHEM F212—Chemical Equilibrium and Analysis—3 4 credits
   CHEM F321 & CHEM F322—Organic Chemistry—6 credits
   CHEM F331 & CHEM F332—Physical Chemistry—6 8 credits

3. Complete two one of the following additional chemistry lab courses:
   CHEM F202—Basic Inorganic Chemistry—3 credits
   CHEM F313—Chemical Analysis of Dynamic Systems*—2 credits
   CHEM F324W—Organic Chemistry Lab—4 credits

4. Minimum credits required—22—24 29—30 credits

*CHEM F324W may be substituted for both of these courses.

D. ESTIMATED IMPACT
WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

None

E. IMPACTS ON PROGRAMS/DEPTS:
What programs/departments will be affected by this proposed action?
Include information on the Programs/Departments contacted (e.g., email, memo)

Slight change in credit amounts will not affect other programs – the general topics covered remain essentially the same. No other departments have been consulted on these small changes.

F. IF MAJOR CHANGE — ASSESSMENT OF THE PROGRAM:
Description of the student learning outcomes assessment process.)

No assessment is planned.
JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize program/degree change applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. If you drop a course, is it because the material is covered elsewhere? Use as much space as needed to fully justify the proposed change and explain what has been done to ensure that the quality of the program is not compromised as a result.

This change in the program description in the catalog will reflect as accurately as possible the course offerings available to incoming students in the Fall 2009 semester. Chem 313 is removed from the list of course requirements, which has been approved by Faculty Senate. However, it will remain in the course descriptions for one more year.

The total credit estimate printed in the current catalog for the Chemistry Minor is incorrect: It should read "28-30 credits". The net change for the Minor in Chemistry is actually only +1 credit, and the same courses are required. The overall reorganization of analytical and physical chemistry courses will benefit students as already outlined in the respective course change forms. This form just summarizes the overall credit situation for this program.

APPROVALS:

Signature, Chair, Program/Department of:
Chemistry & Biochemistry

Date 10-16-08

Signature, Chair, College/School Curriculum Council for:

Date 10-16-08

Signature, Dean, College/School of:

Date 10/17/08

CNSM

ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE

Signature, Chair, UAF Faculty Senate Curriculum Review Committee

Date