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FORMAT 5

PROGRAM/DEGREE REQUIREMENT CHANGE (MAJOR/MINOR)

SUBMITTED BY:

Department

Chemistry and Biochemistry

College/School

CNSM

Prepared by

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See <http://www.uaf.edu/uafgov/faculty/cd> for a complete description of the rules governing curriculum & course changes.

PROGRAM IDENTIFICATION:

Program Level: BA BS MA MS PhD

RA

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

We have been changing the way laboratory sections in physical and analytical chemistry are taught, generally

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)

Major – B.A. Degree

1. Complete the general university requirements. (As part of the core curriculum requirements, complete: MATH F200X; PHYS F103X and PHYS F104X, or PHYS F211X and PHYS F212X.)
2. Complete the B.A. degree requirements. (As part of the B.A. degree requirements, complete: MATH F201X)

The Department of Chemistry and Biochemistry is requesting to drop CHEM312 (Instrumental Analysis) from its required courses for the BA major. Because the BA requirements are used for the BS and other degrees, this change affects essentially all Chemistry and Biochemistry majors. This change is one of the last changes in a sequence that we have been carrying out over the past three years. The goal of these changes is to integrate laboratory sections into lecture courses so that students' hands-on experiences reinforce lecture concepts and vice versa. As a part of these changes, laboratory sections were added to CHEM F212 (Chemical Equilibrium and Analysis), CHEM F331 (Physical Chemistry), and CHEM F332 (Physical Chemistry II). To balance these increases in laboratories (and addition of credits to those courses), we are proposing to eliminate CHEM F312 from the requirements. The goal of this change is to

F434W Instrumental Methods in Physical Chemistry) and (CHEM F413W Analytical Instrumental Laboratory). Therefore, students will gain a large degree of exposure to "Instrumental Analytical Methods". In addition to our internal considerations in the department, our programs are externally accredited by the American Chemical Society (ACS). Through a recent re-accreditation, we realized that we have significantly more analytical chemistry coursework and laboratory time than is required. After the proposed change, we will still exceed the guidelines from ACS and thus should retain our specialized accreditation.

APPROVALS:

[The following section contains multiple horizontal lines, some of which are thick black bars, likely representing redacted signatures or names.]