FORMAT 5

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)

SUBMITTED BY:

Department	Chemistry and Biochemistry	College/School	CNSM
Prepared by	William Simpson	Phone	907 474 7235
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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:

DEGREE PROGRAM	Biochemistry / Molecular Biology
Degree Level: (i.e., Certificate, A.A., A.A.S., B.A., B.S., M.A., M.S., Ph.D.)	BS

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

This is a minor change to alter the way parts I and II of two semester course sequences are listed in the catalog. In addition, there is a change to prerequisites of one course, so we have eliminated one of the advisory (*) statements at the bottom.

B. CURRENT REQUIREMENTS AS IT APPEARS IN THE CATALOG:

Biochemistry/Molecular Biology

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.S. degree requirements. (As part of the B.S. degree requirements, complete: MATH F201X. Chemistry foundation courses may be used toward partial fulfillment of the natural science requirement.)

3. Complete the following program (major) requirements:*
BIOL F115X--Fundamentals of Biology I--4 credits
BIOL F116X--Fundamentals of Biology II--4 credits
BIOL F342--Microbiology (4)
or BIOL F362--Principles of Genetics (4)
CHEM F105X--General Chemistry--4 credits
CHEM F106X--General Chemistry--4 credits
CHEM F212--Chemical Equilibrium and Analysis--4 credits
CHEM F321--Organic Chemistry--3 credits
CHEM F322--Organic Chemistry--3 credits
CHEM F324W--Organic Laboratory--4 credits
CHEM F331--Physical Chemistry--4 credits
CHEM F332--Physical Chemistry--4 credits
CHEM F413W--Analytical Instrumental Laboratory** (3)
or CHEM F434W--Instrumental Methods in Physical Chemistry (3)--3 credits
CHEM F450--General Biochemistry Macromolecules (3)
or CHEM F451--General Biochemistry Metabolism--3 credits
CHEM F481--Seminar--1 credit
CHEM F482O--Seminar--2 credits
CHEM F488--Undergraduate Chemistry and Biochemistry Research (3)--3 credits
Major elective (approved by department head)***--6 credits

4. Complete the following:
MATH F202X--Calculus--4 credits

5. Minimum credits required--130 credits

* Student must earn a C grade or better in each course.
** Requires CHEM F312 as prerequisite.
*** CHEM F202, F402 required for ACS-accredited degree.

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)

Biochemistry/Molecular Biology

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.S. degree requirements. (As part of the B.S. degree requirements, complete: MATH F201X. Chemistry foundation courses may be used toward partial fulfillment of the natural science requirement.)

3. Complete the following program (major) requirements:*
BIOL F115X--Fundamentals of Biology I--4 credits
BIOL F116X--Fundamentals of Biology II--4 credits
BIOL F342--Microbiology (4)
or BIOL F362--Principles of Genetics (4)
CHEM F105X--General Chemistry I --4 credits
CHEM F106X--General Chemistry II--4 credits
CHEM F212--Chemical Equilibrium and Analysis--4 credits
CHEM F321--Organic Chemistry I --3 credits
CHEM F322--Organic Chemistry II --3 credits
CHEM F324W--Organic Laboratory--4 credits
CHEM F331--Physical Chemistry I --4 credits
CHEM F332--Physical Chemistry II--4 credits
CHEM F413W--Analytical Instrumental Laboratory** (3)
or CHEM F434W--Instrumental Methods in Physical Chemistry (3)--3 credits
CHEM F450--General Biochemistry Macromolecules (3)
or CHEM F451--General Biochemistry Metabolism--3 credits
CHEM F481--Seminar--1 credit
CHEM F482O--Seminar--2 credits
CHEM F488--Undergraduate Chemistry and Biochemistry Research (3)--3 credits
Major elective (approved by department head)***--6 credits

4. Complete the following:
MATH F202X--Calculus--4 credits

5. Minimum credits required--130 credits

* Student must earn a C (2.0) grade or better in each course.
~~** Requires CHEM F312 as prerequisite.~~
*** CHEM F202, F402 required for ACS-accredited degree.

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)*
none

F. IF MAJOR CHANGE - ASSESSMENT OF THE PROGRAM:

Description of the student learning outcomes assessment process.)
none.

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.

N/A

APPROVALS:

	Date	5-7-10
Signature, Chair, Program/Department of:		
	Date	5/12/10
Signature, Chair, College/School Curriculum Council for:	CNSM	
	Date	5/13/10
Signature, Dean, College/School of:	CNSM	

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

	Date	

Signature, Chair, UAF Faculty Senate Curriculum Review Committee