

Submit originals (including syllabus) and one copy and electronic copy to the **Faculty Senate Office**
 See <http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures/> for a complete description of the rules governing curriculum & course changes.

CHANGE COURSE (MAJOR) and DROP COURSE PROPOSAL
 Attach a syllabus, except if dropping a course.

SUBMITTED BY:

Department	Biology & Wildlife	College/School	CNSM
Prepared by	Diane Wagner	Phone	474-5493
Email Contact	diane.wagner@alaska.edu	Faculty Contact	Diane Wagner

1. COURSE IDENTIFICATION: As the course now exists.

Dept **BIOL** Course # **303** No. of Credits **4**

COURSE TITLE **Principles of Biochemistry and Metabolism**

2. ACTION DESIRED: Check the changes to be made to the existing course.

Change Course If Change, indicate below what is changing. Drop Course X

NUMBER	TITLE	DESCRIPTION
PREREQUISITES*		FREQUENCY OF OFFERING

*Prerequisites will be required before a student is allowed to enroll in the course.

CREDITS (including credit distribution)	COURSE CLASSIFICATION

ADD A STACKED LEVEL (400/600) Dept. Course #
 Include syllabi.

How will the two course levels differ from each other? How will each be taught at the appropriate level?:

Stacked course applications are reviewed by the (Undergraduate) Curricular Review Committee and by the Graduate Academic and Advising Committee. Creating two different syllabi—undergraduate and graduate versions—will help emphasize the different qualities of what are supposed to be two different courses. The committees will determine: 1) whether the two versions are sufficiently different (i.e. is there undergraduate and graduate level content being offered); 2) are undergraduates being overtaxed?; 3) are graduate students being undertaxed? In this context, the committees are looking out for the interests of the students taking the course. Typically, if either committee has qualms, they both do. More info online - see URL at top of this page.

ADD NEW CROSS-LISTING	Dept. & No. <input type="checkbox"/>	Requires approval of both departments and deans involved. Add lines at end of form for additional signatures.
STOP EXISTING CROSS-LISTING	Dept. & No. <input type="checkbox"/>	Requires notification of other department(s) and mutual agreement. Attach copy of email or memo.
OTHER (specify)		

3. COURSE FORMAT

NOTE: Course hours may not be compressed into fewer than three days per credit. Any course compressed into fewer than six weeks must be approved by the college or school's curriculum council and the appropriate Faculty Senate curriculum committee. Furthermore, any core course compressed to less than six weeks must be approved by the Core Review Committee.

COURSE FORMAT: (check all that apply) 1 2 3 4 5 6 weeks to full semester

OTHER FORMAT (specify all that apply)
 Mode of delivery (specify lecture, field trips, labs, etc.)

RECEIVED

SEP 20 2013

Dean's Office
 College of Natural Science & Mathematics

Governance
10/3/13 TUP

4. **COURSE CLASSIFICATIONS:** (undergraduate courses only. Use approved criteria found in Chapter 12 of the curriculum manual. If justification is needed, attach separate sheet.)

H = Humanities S = Social Sciences

Will this course be used to fulfill a requirement for the baccalaureate core? YES NO

IF YES*, check which core requirements it could be used to fulfill:

O = Oral Intensive, *Format 6 also submitted W = Writing Intensive, *Format 7 submitted X = Baccalaureate Core

4.A *Is course content related to northern, arctic or circumpolar studies? If yes, a "snowflake" symbol will be added in the printed Catalog, and flagged in Banner.*

YES NO

5. **COURSE REPEATABILITY:**

Is this course repeatable for credit? YES NO

Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time).

How many times may the course be repeated for credit? TIMES

If the course can be repeated with variable credit, what is the maximum number of credit hours that may be earned for this course? CREDITS

6. **COMPLETE CATALOG DESCRIPTION** including dept., number, title, credits, credit distribution, cross-listings and/or stacking, clearly showing the changes you want made. (Underline new wording ~~strike through old wording~~ and use complete catalog format including dept., number, title, credits and cross-listed and stacked.)

Example of a complete description:

PS F450 Comparative ~~Aberiginal~~ Indigenous Rights and Policies (s)
3 Credits

Offered As Demand Warrants

~~Case-study~~ Comparative approach in ~~assessing Aberiginal~~ analyzing Indigenous rights and policies in different nation-state systems. ~~Seven Aberiginal situations~~ Multiple countries and specific policy developments examined for factors promoting or limiting self-determination. Prerequisites: Upper division standing or permission of instructor. (Cross-listed with ANS F450.) (3+0)

BIOL F303 Principles of Metabolism and Biochemistry

4 Credits

Offered Fall

Introduction to metabolism at the molecular level. Topics include structure and function of proteins, allostery and feedback, biological regulation and the major pathways of carbon and nitrogen metabolism. Presented in an evolutionary and ecological context. Prerequisites: BIOL F115X; BIOL F116X; CHEM F105X; CHEM F106X. (3+3)

7. **COMPLETE CATALOG DESCRIPTION AS IT SHOULD APPEAR AFTER ALL CHANGES ARE MADE:**

8. **GRADING SYSTEM:** Specify only one.

LETTER: PASS/FAIL:

9. **ESTIMATED IMPACT**

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

This course used to be taught by Bert Boyer, who now directs CANHR, and Barbara Taylor, who now directs URSA and whose expertise is needed in other courses. BIOL 303 has not been taught in several years.

10. LIBRARY COLLECTIONS

Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.

No

Yes

11. 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)

The change will impact both the Biology & Wildlife and Chemistry & Biochemistry departments. BIOL 303 fulfills a requirement for biochemistry or organic chemistry for biology majors under catalog years prior to 2013/14. Majors from these catalog years will now need to take two semesters of organic chemistry (CHEM 321 and 322) to satisfy the requirement. Majors who fall under the 2013/14 catalog year must take at least one semester of organic chemistry and cannot substitute BIOL 303. This change which will increase enrollments in Chemistry courses. This change was discussed last year with Chemistry chair Bill Simpson.

12. POSITIVE AND NEGATIVE IMPACTS

Please specify **positive and negative** impacts on other courses, programs and departments resulting from the proposed action.


Some biological science majors will be disappointed that they cannot satisfy their major requirements with this one-semester course, and will instead need to take a year of organic chemistry. However, the faculty thinks the impacts of this change will largely be positive. The chemistry department teaches biochemistry and so BIOL 303 was somewhat redundant. Also, the biology faculty has agreed that all biological sciences majors should take organic chemistry and as a result, under the 2013/14 catalog year, all majors must take at least one semester of organic chemistry. Biochemistry and organic chemistry are very different subjects, and asking students to choose one semester of one or 2 semesters of the other was always rather odd.

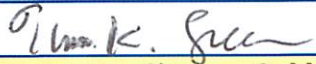
13. JUSTIFICATION FOR ACTION REQUESTED

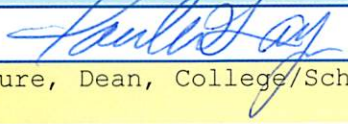
The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. If you ask for a change in # of credits, explain why; are you increasing the amount of material covered in the class? If you drop a prerequisite, is it because the material is covered elsewhere? If course is changing to stacked (400/600), explain higher level of effort and performance required on part of students earning graduate credit. 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 course is not compromised as a result.

The Biology & Wildlife department intended to request this change last year, when the major program changes mentioned above were submitted, but inadvertently failed to submit the paperwork. It is part of a larger set of changes to the biological sciences curriculum.

APPROVALS: (Additional signature blocks may be added as necessary.)

	Date	9/19/2013
Signature, Chair, Program/Department of:	Biology + Wildlife	

	Date	10-1-13
Signature, Chair, College/School Curriculum Council for:	CNSM	

	Date	10/3/13
Signature, Dean, College/School of:	CNSM	

Offerings above the level of approved programs must be approved in advance by the Provost:

	Date	
Signature of Provost (if applicable)		

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

	Date	
Signature, Chair Faculty Senate Review Committee:	<input type="checkbox"/> Curriculum Review <input type="checkbox"/> GAAC <input type="checkbox"/> Core Review <input type="checkbox"/> SADAC	

ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking; add more blocks as necessary.)

	Date	
Signature, Chair, Program/Department of:		

	Date	
Signature, Chair, College/School Curriculum Council for:		

	Date	
Signature, Dean, College/School of:		

Note: If removing a cross-listing, attach copy of email or memo to indicate mutual agreement of this action by the affected department(s). If degree programs are affected, a Format 5 program change form must also be submitted.