# ACADEMIC SENATE PROPOSAL TRACKING SHEET

(Document To Be Originated By Academic Senate Secretary On Canary Color Paper) All proposals MUST have their originating college faculty body (Ex. Nursing, Technical Sciences, Arts & Sciences, Education) approval and must be signed by the submitter and the college chair/dean before being submitted to the academic senate secretary.

Submit all proposals (using the appropriate Academic Senate program/degree and/or course revision forms) to the Academic Senate Secretary.

The Academic Senate Secretary logs and numbers items and forwards them to the appropriate Academic Senate 2. subcommittee(s): Teacher Education (if applicable), General Education (if applicable), or Curriculum.

The Academic Senate subcommittee(s) consider(s) the proposal. If approved, the proposal is forwarded to the next committee. If a committee disapproves the proposal, the originator may request that the item be forwarded to the next body for consideration. The committee will provide written rationale to the originator when a proposal is disapproved and the proposal is returned to the originator.

The Academic Senate considers the proposal and approves or disapproves. If approved, the proposal is forwarded to the Full Faculty for consideration. If the Academic Senate disapproves the proposal, the originator may request that the item be forwarded to the Full Faculty for consideration. The Academic Senate will provide written rationale to the originator when proposals are disapproved and the proposal is returned to the originator.

The Full Faculty considers academic senate approved proposals. If faculty approve, the proposal will then be forwarded to the Provost. The Provost approves or disapproves the proposal. If approved, the proposal is then forwarded to the Chancellor.

The Chancellor approves or disapproves the proposal.

C/data/proposaltracking sheet ACAD 10 10 01

Subcommittee and Academic Senate college representatives will notify their respective colleges' of the progress of submitted proposals or the proposal may be tracked via the web page --

http://www.msun.edu/admin/provost/asproposals.htm

Documentation and forms for the curriculum process is also available on the web page: http://www.msun.edu/admin/provost/asforms.htm (If a proposal is disapproved at any level, it is returned through the Academic Senate secretary to the Chair/Dean of the submitting college who then notifies the originator.) LUISIONS nvarawi (proposal explanation, submitter and college chair/dean signatures on attached program/degree or course revision form) Received by ACAD Senate Approved Forwarded to Teacher Ed Council Disapproved Signature Date Forwarded to Gen Ed Committee Approved Disapproved Signatur Returned to ACAD Senate Disapproved Forwarded to Curriculum Committee Date Disapproved Returned to ACAD Senate for Vote Sent to Provost's office for Full Faculty vote Disapproved Voted on at Full Faculty meeting Date Approved Disapproved Forwarded to Provost for Approval/Disapproval see attached memo. 24/03 Forwarded to Chancellor for Approval/Disapproval Disapproved Copies sent to originating college and registrar's office

## PROGRAM/DEGREE REVISION FORM

∠W DROPPED :	MAJOR REVISION <u>X</u> FOR INFO	RMATION ONLY
College Arts and Science P	Program Area Biology	Date 12/11/02
Submitter Cowold Va	Chair/Dean Mall Lo	Date 12/17/02
Signature	Signature (indicates "college"	* * *
Please provide in the space be	low a "before and after" picture of the	program with the changes in the
program noted. Attach appro	priate Course Revision Forms. Please	indicate changes by shading the
appropriate cells.		

### Proposal:

- 1. Correct clerical error in the total credits for the Biology program revision dated April 12, 2002, to read Total Credits: 108 not 114. Correct clerical error under the credit for BIOL 141 Cell Biology Lab to read 1 not 0.
- 2. Proposal to drop PHYS 232 Fundamentals of Physics II and PHYS 235 Fundamentals of Physics II Lab from the Biology program Common Science Core requirements and drop BIOL 322 Botany II from the Program Selective requirements.
- 3. Proposal to add BIOL 217 Microbiology as a Common Science Core to the Biology program and add BIOL 241 Anatomy and Physiology I, BIOL 242 Anatomy and Physiology II, BIOL 4XX Field Biology, BIOL 406 Molecular Biology Techniques, BIOL 460 Advanced Microbiology, NSCI 455 Undergraduate Research II to the program selective course list.

PROPOSAL TITLE Biology Program Revision

OLD PROGRAM (4/02 Proposal)

Prefix	Course Title Common Science Core (34 credits) Cell Biology	Fall	Spr.
	(34 credits)		
	Cell Biology		
BIOL 141			
	Cell Biology Lab	e e	
BIOL 221	Botany I	3	
BIOL 222	Botany I Lab	2	
BIOL 348	Zoology	3	
BIOL 350	Zoology I Lab	2	
CHEM 121	General Inorganic	3	
	Chemistry I		
CHEM 122	General Inorganic		3
	Chemistry II	L	
CHEM 123	General Inorganic	2	
	Chemistry I Lab		
CHEM 124	General Inorganic	ic 2	
	Chemistry II Lab		
PHYS 231	Fundamentals of Physics I	3	
PHYS 232	Fundamentals of Physics II		3
PHYS 234	Fundamentals of Physics I Lab	2	
PHYS 235	Fundamentals of Physics II	- Mil	2
	Lab		
	Required Courses (22		
	credits)		]
BIOL 314	General Ecology	4	
BIOL 468	Molecular Biology &	4	
5.52   100	Genetics		
CHEM 341	Organic Chemistry I	3	
CHEM 342	Organic Chemistry I Lab	2	
MATH 116	Statistics Statistics	3	ļ
NSCI 301	Essence of Science	3	<b></b>

**NEW PROGRAM** 

Course	[		Credits	
Prefix	#	Course Title	Fall	Spr.
		Common Science Core		
		(34 credits)		
BIOL	140	Cell Biology 4		
BIOL	141	Cell Biology Lab	1	
BIOL	217	Microbiology		4
BIOL	221	Botany I	3	ļ
BIOL	222	Botany I Lab	2	
BIOL	348	Zoology	3	ļ
BIOL	350	Zoology I Lab	2	1
CHEM	121	General Inorganic	3	ļ
		Chemistry I		
CHEM	122	General Inorganic		3
	1	Chemistry II		
CHEM	123	General Inorganic	2	
		Chemistry I Lab		<u></u>
CHEM	124	General Inorganic	2	
		Chemistry II Lab		ļ
PHYS	231	Fundamentals of Physics I	3	1
DITTO	224	End and the CDL size I	2	<del> </del>
PHYS	234	Fundamentals of Physics I Lab	2	Ì
				<u> </u>
ļ		Required Courses (22 credits)		
BIOL	314	General Ecology	4	1
BIOL	314	General Ecology	7	İ
BIOL	468	Molecular Biology &	4	<del> </del>
BIOL	400	Genetics	7	ŀ
CHEM	341	Organic Chemistry I	3	<del> </del>
CHEW	""	Organic Chemisu y 1		
CHEM	342	Organic Chemistry I Lab	2	
MATH	116	Statistics	3	1
NSCI	301	Essence of Science	3	<del>†                                      </del>
NSCI	450	Undergraduate Research I	3	<del>                                     </del>
	1 100	I The state of the	<u> </u>	<del></del>

	450	Undergraduate Research I	3	
_		Program Selectives (12 credits)		
JIOL	322	Botany II		4
BIOL	324	Entomology	3	
BIOL	334	Ornithology		3
BIOL	407	Freshwater Biology	3	
ESCI	310	Introduction to Paleontology	3	
		·.		

Total C	redits	3:	108

		Program Selectives (12 credits)		
BIOL	241	Anatomy and Physiology I	4	
BIOL	242	Anatomy and Physiology II		4
BIOL	324	Entomology		3
BIOL	334	Ornithology		3
BIOL	407	Freshwater Biology	3	
BIOL	4XX	Field Biology	4	
BIOL	406	Molecular Biology Techniques		3
BIOL	460	Advanced Microbiology	3	
NSCI	451	Undergraduate Research II		3
ESCI	310	Introduction to Paleontology	3	(Summer)

**Total Credits** 

108

PLEASE NOTE: Students enrolling in this program may pay between \$5-\$40/semester in course fees. Those fees are in addition to tuition and other fees.

\* student must take 12 credits in distribution/ andfor selective/ and electives " Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

ACAD program degree revision form Revised: 10/10/01

#### **COURSE REVISION FORM**

VEW X DROPPED MAJOR REVISION FOR INFORMATION ONLY.
College Arts & Science Program Area Biology Date 12/11/02  Submitter Signature Chair/Dean Signature (indicates "college" level approval)  Date 12/17/02
Please provide a brief explanation & rationale for the proposed revision(s):
Proposal to introduce BIOL 4XX, Field Biology, as a selective for the Biology program.
Please provide the following information:
College: Arts & Sciences

Program Area: Biology

**Date:** 12/09/02

Course Prefix & No.: BIOL 4XX

Course Title: Field Biology Methods

Credits: 4

Required by: All Biology majors

Selective in: Bachelors degree in Water Quality

Elective in: many degrees General Education: none

Lecture:

Lecture/Lab: 4

Contact hours lecture: 3 Contact hours lab: 1

**Current Catalog Description (include all prerequisites):** 

none

## Proposed or New Catalog Description (include all prerequisites):

This course provides experience in using various ecological techniques to measure certain parameters of populations of organisms found in Montana. The course emphasizes careful observation and measurement and allows students to develop an understanding of using statistical methods and demographic data to interpret biological processes and population trends.

The course will include such topics as using taxonomic keys, reviewing and evaluating technical literature, habitat surveys, population census methods and others. Prerequisite: BIOL 151 or BIOL 314 or BIOL 348 or consent of the instructor.

### **Course Outcome Objectives:**

The student will develop skills in applying both field and statistical methods in measuring and interpreting biological processes and trends in populations of select organisms.

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources. Minor equipment that will be purchased with lab fees.

ACAD course revision form 10-10-2001 rev. 12-12-0

FROM: Roger Barber nogn Bonbin RE: Revisions RE: Revisions in the Biology Program DATE: February 24, 2003

I have reviewed the proposed changes in the biology program. And I have spent considerable time thinking about the effect of those changes. Reluctantly, I have decided that I cannot approve the revisions. The purpose of this memorandum is to tell you why.

common" set of program selectives.

Commissioner's office has been erased.

Let me begin by stating that I think some of the changes are good, and I have no doubt that they strengthen the biology program as a consequence.

Unfortunately, those strengths are outweighed by the concerns I have with the proposed changes. My concerns are as follows:

--both the biology program and the general science, secondary

education program were reviewed by the Montana Board of Regents in 2000

because of their low enrollments. Both programs "survived" that review, but only because the institution agreed to make the two programs as efficient and similar as possible. It probably doesn't need to be stated, but the alternative to survival was elimination. --enrollments in the two programs have not increased significantly

since 2000. In fact, at their current levels, they will almost certainly be reviewed again by the Board of Regents. -- the two programs were revised in 2000, to comply with the Board

of Regents' decision. Following those revisions, both programs shared a common set of courses, called the science core, and an "almost --those similarities have been eliminated with the recent revisions in the biology degree. The common science core is gone; and the list of selective courses is markedly different. As a result, MSU-Northern's negotiated understanding with the Board of Regents and the

I would be happy to consider changes in the biology degree, but only when

the general science, secondary education degree is part of those revisions. Any changes in the two programs must reflect the need for efficiency and similarity, whenever possible. That is the promise MSU-Northern made to the Board of Regents, in 2000, in order to hang on to those two degree

programs. We must honor that promise as we make changes in either program. The faculty in the science programs still have time to make changes in both degree programs before the school year is over. I would urge them to make those changes, since some of the changes in the biology program seemed

logical. But I will reiterate the institution's promise one more time: both the biology degree and the education degree in general science must be as similar as possible. That means that revisions in one cannot be made without making changes in the other.

If you have any questions, I would be happy to try and answer them.

Cc: Will Rawn