

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.

1. Submit all proposals (using the appropriate Academic Senate program/degree and/or course revision forms) to the Academic Senate Secretary.
2. The Academic Senate Secretary logs and numbers items and forwards them to the appropriate Academic Senate subcommittee(s): Teacher Education (if applicable), General Education (if applicable), or Curriculum.
3. 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.
4. 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.
5. 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.
7. The Chancellor approves or disapproves the proposal.

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.)**

Proposal # <u>02-37</u>	Title: <u>Revision in the Biology Program</u>
(proposal explanation, submitter and college chair/dean signatures on attached program/degree or course revision form)	

Received by ACAD Senate Forwarded to Teacher Ed Council	Date <u>4/3/03</u>	Approved _____ Disapproved _____ <hr/> Signature _____ Date _____ Approved _____ Disapproved _____ <hr/> Signature _____ Date _____
Forwarded to Gen Ed Committee	_____	Approved _____ Disapproved _____ <hr/> Signature _____ Date _____
Returned to ACAD Senate Forwarded to Curriculum Committee	Date <u>4/3/03</u>	Approved _____ Disapproved _____ <hr/> Signature <u>[Signature]</u> Date <u>4/15/03</u>
Returned to ACAD Senate for Vote	Date <u>4/16/03</u>	Approved _____ Disapproved _____ <hr/> Signature <u>[Signature]</u> Date <u>4/22/03</u>
Sent to Provost's office for Full Faculty vote Voted on at Full Faculty meeting	Date <u>4/23/03</u>	Approved _____ Disapproved _____ <hr/> Signature _____ Date _____ Approved _____ Disapproved _____ <hr/> Signature _____ Date _____
Forwarded to Provost for Approval/Disapproval	_____	Approved _____ Disapproved _____ <hr/> Signature _____ Date _____
Forwarded to Chancellor for Approval/Disapproval	_____	Approved _____ Disapproved _____ <hr/> Signature _____ Date _____
Copies sent to originating college and registrar's office	_____	Signature _____ Date _____

PROCEDURAL SEQUENCE FOR ACADEMIC SENATE APPROVAL OF PROPOSALS

1. Submit all proposals to the Office of Academic Affairs.
2. The Senate President will log items and forward them to the appropriate Senate subcommittees.
3. The Senate subcommittee will send the proposal to the Senate.
4. Senate proposals will be considered by the Full Faculty.
5. If approved, the proposal will then be forwarded to the Vice Chancellor.

Proposals that require action to approve/disapprove/table or remand will be sent back to the Senate according to the monthly meeting schedule.

TITLE: Revision in the Biology Program

SUBCOMMITTEE: _____ **PROPOSAL #:** _____

PROPOSAL:

1. Correct clerical error in the total credits for the Biology program revision dated April 12, 2002, to read Total Credits: 120 not 108. 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.

Action Signatures:

<u>Carol A. Paschke</u>	<u>4/4/03</u>	<u>[Signature]</u>	<u>4/03/03</u>
Submitter	Date	College Chair/Dean	Date
_____	_____	Approve _____ Disapprove _____	Date _____
Committee Chair	_____	Approve _____ Disapprove _____	Date _____
_____	_____	Approve _____ Disapprove _____	Date _____
Committee Chair	_____	Approve _____ Disapprove _____	Date _____
_____	_____	Approve _____ Disapprove _____	Date _____
Faculty Senate President	_____	Approve _____ Disapprove _____	Date _____
_____	_____	Approve _____ Disapprove _____	Date _____
Provost/Senior Vice Chancellor for Academic Affairs	_____	Approve _____ Disapprove _____	Date _____

PROGRAM/DEGREE REVISION FORM

Date 3 -10-03

NEW DROPPED MAJOR REVISION FOR INFORMATION ONLY

Submitter

Carol A. Reinhard

Chair/Dean

signature

[Signature]

signature

Date

4/4/03

Please provide a brief explanation & rationale for the proposed revision(s)

Please provide in the space below a "before & after" picture of the program with the changes in the program noted. Attach appropriate Course Revision Forms. Please indicate changes by shading the appropriate cells.

Bachelor of Science Degree Major in Biology
No Minor Required

General Education Core Requirements	15 -16
Distribution Requirements	24
Common Science Core	35
Required Program Courses	22
Program Selectives	12
Electives	12
TOTALS	120

FRESHMAN YEAR		Fall	Spr
Courses to be taken Fall/Spring Semester			
BIOL 140 Cell Biology		4	
BIOL 141 Cell Biology Lab		0	
CHEM 121 General Inorganic Chemistry I		3	
CHEM 123 General Inorganic Chemistry I Lab		2	
ENGL 111 Written Communication I		3	
Dist Req Area A		3	
CHEM 122 General Inorganic Chemistry II			3
CHEM 124 General Inorganic Chemistr II Lab			2
CIS 110 Introduction to Computers			3
ENGL 112 Written Communication II			3
MATH 110 Math for Liberal Arts			4
OR			
MATH 112 College Algebra			3
SPCH 141 Fundamentals of Speech			3
OR			
SPCH 142 Interpersonal Communication			3
TOTALS		15	18

SOPHOMORE YEAR		Fall	Spr
Courses to be taken Fall/Spring Semester			
BIOL 221 Botany I		3	
BIOL 222 Botany I Lab		2	
MATH 116 Applied Statistics		3	
PHYS 231 Fundamentals of Physics I		3	
PHYS 234 Fundamentals of Physics I Lab		2	
Dist Req Area A		3	
PHYS 232 Fundamentals of Physics II			3
PHYS 235 Fundamentals of Physics II Lab			2
Dist Req Area B			3
Dist Requ Area D			3
Selective			4
TOTALS		16	15

JUNIOR YEAR		Fall	Spr
Courses to be taken Fall/Spring Semester			
BIOL 314 General Ecology		4	
BIOL 348 Zoology		3	
BIOL 350 Zoology Lab		2	
CHEM 341 Organic Chemistry I		3	
CHEM 342 Organic Chemistry I Lab		2	
NSCI 201 Essence of Science		3	
Dist Req Area D			3
Selectives			8
Electives		4	3
TOTALS		17	14

SENIOR YEAR		Fall	Spr
Courses to be taken Fall/Spring Semester			
BIOL 468 Molecular Biology & Genetics		4	
NSCI 450 Undergraduate Research I		3	
Electives		3	
Dist Req Area B			3
Electives			12
TOTALS		10	15

TOTAL CREDITS 120

FRESHMAN YEAR		Fall	Spr
Courses to be taken Fall/Spring Semester			
BIOL 140 Cell Biology		4	
BIOL 141 Cell Biology Lab		1	
CHEM 121 General Inorganic Chemistry I		3	
CHEM 123 General Inorganic Chemistry I Lab		2	
ENGL 111 Written Communication I		3	
Dist Req Area A		3	
CHEM 122 General Inorganic Chemistry II			3
CHEM 124 General Inorganic Chemistr II Lab			2
CIS 110 Introduction to Computers			3
ENGL 112 Written Communication II			3
MATH 110 Math for Liberal Arts			4
OR			
MATH 112 College Algebra			3
SPCH 141 Fundamentals of Speech			3
OR			
SPCH 142 Interpersonal Communication			3
TOTALS		16	17

SOPHOMORE YEAR		Fall	Spr
Courses to be taken Fall/Spring Semester			
BIOL 221 Botany I		3	
BIOL 222 Botany I Lab		2	
MATH 116 Applied Statistics		3	
PHYS 231 Fundamentals of Physics I		3	
PHYS 234 Fundamentals of Physics I Lab		2	
Dist Req Area A		3	
PHYS 232 Fundamentals of Physics II			3
PHYS 235 Fundamentals of Physics II Lab			2
Dist Req Area B			3
Dist Requ Area D			3
Selective			4
TOTALS		16	15

JUNIOR YEAR		Fall	Spr
Courses to be taken Fall/Spring Semester			
BIOL 314 General Ecology		4	
BIOL 348 Zoology		3	
BIOL 350 Zoology Lab		2	
CHEM 341 Organic Chemistry I		3	
CHEM 342 Organic Chemistry I Lab		2	
NSCI 201 Essence of Science		3	
Dist Req Area D			3
Selectives			8
Electives			3
TOTALS		17	14

SENIOR YEAR		Fall	Spr
Courses to be taken Fall/Spring Semester			
BIOL 468 Molecular Biology & Genetics		4	
NSCI 450 Undergraduate Research I		3	
Electives		3	
Dist Req Area B			3
Electives			12
TOTALS		10	15

TOTAL CREDITS 120

Program Selectives 12 Credits

		Fall	Spr
BIOL	322 Botany II		4
BIOL	324 Entomology	3	
BIOL	334 Ornithology		3
BIOL	407 Freshwater Biology	3	
ESCI	310 Introduction to Paleontology	3	

Program Selectives 12 Credits

		Fall	Spr
BIOL	217 Microbiology		4
BIOL	241 Anatomy & Physiology I		4
BIOL	242 Anatomy & Physiology II		4
BIOL	322 Botany II		4
BIOL	324 Entomology		3
BIOL	334 Ornithology		3
BIOL	407 Freshwater Biology		3
BIOL	4XX Field Biology		3
BIOL	406 Molecular Biology Techniques		3
BIOL	460 Advanced Microbiology		3
NSCI	451 Undergraduate Research II		3
ESCI	310 Introduction to Paleontology		3

COURSE REVISION FORM

NEW X DROPPED _____ MAJOR REVISION _____ FOR INFORMATION ONLY _____

College Arts & Science Program Area Biology and General Science Secondary Education Date 04/02/03

Submitter Carol A. Reschman Chair/Dean W. A. Raem Date 4-4-03
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):

Proposal to introduce BIOL 4XX, Field Biology, as a selective for the Biology and General Science Secondary Education programs.

Please provide the following information:

College: Arts & Sciences

Program Area: Biology and General Science Secondary Education

Date: 12/09/02 Resubmitted: 04/02/03

Course Prefix & No.: BIOL 4XX

Course Title: Field Biology Methods

Credits: 4

Required by:

Selective in: BS degree Biology and BS degree General Science Secondary Education

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.