

07255



Minnesota State University, Mankato HOLD and CLEAR buttons only compatible with Acrobat V. 4 and 5 Curriculum Proposal

Please type or select the requested information. Print completed forms, add appropriate paper attachments, and route through MSU's curricular process for recommendations and decisions.

		(Check all that apply):		Proposal #	197
College:	Science, Engineering and Technology	<input type="checkbox"/>	Undergraduate	Effective Date of Change:	
Department:	Biological Sciences	<input type="checkbox"/>	Graduate	Academic Year	06-07
Program:	Biology (ecology)	CIP #		(For Office Use Only)	
Type of Change	PROGRAM PROPOSALS			Course Designator	Number of
Proposed:	Change in Requirements-Course(s) Added			and Number	Credits
Title Current:					
Title Proposed:					
24-Char. Abbrev:					(if applicable)

Include a course or program description for the Bulletin (30-40 words maximum for courses, 100 for programs):

Ecology is the study of relationships between organisms and their environment. The option consists of fundamental courses in biology and related sciences, mid-level study in genetics, evolution, and statistics, and an array of upper-division electives that emphasize fieldwork, data analysis, and writing. Many students collaborate with faculty in their research or conduct independent research projects. Career titles available with this option include ecologist, naturalist, wildlife biologist, natural resource manager, first biologist, marine biologist, conservational training or graduate school. For more information about the option and the ecology faculty, select "ecology" at the department page (see the Biological Sciences page).

Rationale or Justification for change:

Change: Move Eng 271 (Tech. Comm.) from 'recommended support' to 'required support'. Rationale: Students need better communication skills. Change: Delete STAT 154 (Elem. Stat.) from program. Rationale: We wish to delete the STAT 154 course, but we are leaving the HLTH 475 course (Biostatistics) in place as required.

For General Education or Cultural Diversity Courses Only

General Education Course:		Cultural Diversity Course: (Please check one.) <input type="checkbox"/> Core (At least 75% devoted to topics of race, gender, sexual orientation, age, class, and disabilities as they occur in United States Society.) <input type="checkbox"/> Related (At least 25% devoted to the above topics or to a global perspective on topics related to African American, Asian, Hispanic, and Native American inhabitants of the United States.)
GE Category #	GE Category Name (Maximum of 3 Categories)	
N/A		
N/A		
<p>? For Writing Intensive Courses, attach a description of the kind and quantity of writing.</p> <p>? For Upper Division Courses, include a description of the respects in which it is broad and general rather than narrow and specific, and so suitable as GE.</p>		
Attach paper copies of the following:		
a. Syllabus or course outline.		
b. Course's student learning outcomes associated with each GE competency or CD designation.		
c. List of strategies to be used to assess students' achievement of each GE competency or CD designation.		

For New Courses

(Check all that apply):	Instructional Type: <input type="checkbox"/> Lecture	Course will be offered:
<input type="checkbox"/> Course is an elective.	Grading Format: <input type="checkbox"/> Grade <input type="checkbox"/> P/N	<input type="checkbox"/> Fall Semester
<input type="checkbox"/> Course is required for program		<input type="checkbox"/> Spring Semester
<input type="checkbox"/> Pre- or Co-requisites:		<input type="checkbox"/> Summer Session
<input type="checkbox"/> Other courses are being changed or eliminated. (Explain.) _____		
<input type="checkbox"/> Course content or title is similar to courses in other departments. (Attach copy of letter of agreement with other program(s) contacted. Indicate the nature of the discussions and/or resolution of differences or potential conflicts.)		
Attach paper copies of the following:		
a. Syllabus or course outline.		
b. Course's student learning outcomes.		
c. A list of resources required to offer and support this course.		
d. A description of how teaching this course will affect department staffing.		
e. If 400/500 level course, an explanation of added expectations of graduate students.		



Minnesota State University, Mankato
Curriculum Proposal

Signature Page

Department			
<input checked="" type="checkbox"/> Recommended	(Category/ies _____)	<u>Dee A. May</u>	<u>10/19/06</u>
<input type="checkbox"/> Not Recommended	(Category/ies _____)	Department Chair	Date
Comments:			
College Curriculum Committee			
<input checked="" type="checkbox"/> Recommended	(Category/ies _____)	<u>Kenn C. Chou</u>	<u>11/2/06</u>
<input type="checkbox"/> Not Recommended	(Category/ies _____)	Committee Chair	Date
Comments:			
College Dean			
<input checked="" type="checkbox"/> Recommended	(Category/ies _____)	<u>[Signature]</u>	<u>11/4/06</u>
<input type="checkbox"/> Not Recommended	(Category/ies _____)	Dean	Date
Comments:			
General Education Subcommittee			
<input type="checkbox"/> Recommended	(Category/ies _____)		
<input type="checkbox"/> Not Recommended	(Category/ies _____)	General Education Subcommittee Chair	Date
Comments:			
Undergraduate Curriculum and Academic Policy Committee			
<input checked="" type="checkbox"/> Recommended	(Category/ies _____)	<u>[Signature]</u>	<u>3/29/07</u>
<input type="checkbox"/> Not Recommended	(Category/ies _____)	UCAP Faculty Chair	Date
Comments:			
Faculty Association Graduate Committee			
<input type="checkbox"/> Recommended			
<input type="checkbox"/> Not Recommended		Faculty Association Graduate Chair	Date
Comments:			
Graduate Dean			
<input type="checkbox"/> Recommended			
<input type="checkbox"/> Not Recommended		Graduate Dean	Date
Comments:			
Academic Affairs Council			
<input checked="" type="checkbox"/> Recommended	(Category/ies _____)	<u>[Signature]</u>	<u>4/9/07</u>
<input type="checkbox"/> Not Recommended	(Category/ies _____)	Assistant Vice President	Date
Comments:			
Senior Vice President and Vice President for Academic Affairs			
<input checked="" type="checkbox"/> Approved	(Category/ies _____)	<u>[Signature]</u>	<u>4/9/07</u>
<input type="checkbox"/> Not Approved	(Category/ies _____)	(Sr. Vice President / Vice Pres. Academic Affairs)	Date
Comments:			

Current Text:

ECOLOGY OPTION

Required for Option (11 credits):

BIOL 105 General Biology I (4)

BIOL 106 General Biology II (4)

BIOL 211 Genetics (3)

Required General Education (9 credits):

CHEM 201 General Chemistry I (5)

PHYS 211 Principles of Physics I (4)

Required Support Courses (8 credits):

Choose one:

CHEM 111 Chemistry of Life Processes (5)

CHEM 202 General Chemistry II (5)

Choose one:

STAT 154 Elementary Statistics (3)

HLTH 475 Biostatistics (3)

Core Courses (21-27 credits required):

BIOL 215 General Ecology (4)

BIOL 301 Evolution (2)

BIOL 408 Vertebrate Ecology (4)

BIOL 412 Soil Ecology (4)

BIOL 443 Plant Ecology (4)

Choose one letter:

a) BIOL 320 Cell Biology (4)

b) BIOL 431 Comparative Animal Physiology (3)

c) BIOL 217 Plant Science (3) and

BIOL 441 Plant Physiology (4)

d) BIOL 270 Microbiology (4) and

BIOL 476 Microbial Physiology and Genetics (5)

Recommended Support Courses (12 credits)

COMS 100 Introduction to Computer Science (4)

MATH 121 Calculus I (4)

ENG 271 Technical Communication (4)

Elective Courses (20-28 credits)

I. Choose 2-8 credits from the following Biology courses for a total of 40

credits of Biology:

BIOL 316 BIOL 403 BIOL 404 BIOL 409 BIOL 410

BIOL 431 BIOL 432 BIOL 436 BIOL 441 BIOL 442

BIOL 460 BIOL 472 BIOL 479 BIOL 492# BIOL 497#

BIOL 499# and others by consent of advisor.

#Limit of 4 credits total from these courses.

II. Choose at least 18 credits from non-Biology courses in consultation with

your advisor.

Proposed Revision

ECOLOGY OPTION

Required for Option (11 credits):

BIOL 105 General Biology I (4)

BIOL 106 General Biology II (4)

BIOL 211 Genetics (3)

Required General Education (9 credits):

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Required Support Courses (12 credits):

ENG 271 Technical Communication (4)

HLTH 475 Biostatistics (3)

Choose one:

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CHEM 202 General Chemistry II (5)

Will delete Stat 154 as an option

Will change Hlth 475 to required support

Will change Eng 271 to required support

Core Courses (21-27 credits required):

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BIOL 301 Evolution (2)

BIOL 408 Vertebrate Ecology (4)

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BIOL 499# and others by consent of advisor.

#Limit of 4 credits total from these courses.

II. Choose at least 18 credits from non-Biology courses in consultation with your advisor.

Program proposal attachments for Biology (Ecology) revisions:

- a. Student learning outcomes are listed in the first column of the attached assessment plan.
- b. Department minutes will be attached once they are approved at our next department meeting.
- c. The program assessment plan is attached.
- d. No additional resources are needed to accommodate this revision. A letter from Roland Nord regarding Eng 271 is attached. There is also a letter from Steve Bohnenblust regarding Hlth 475.
- e. This change will not affect departmental staffing.
- f. No additional library holdings are needed in regards to this change.

BA/BS Biology – Assessment Plan

Outcomes	Related College Goals	Related University Goals	Method of Assessment	Who Assessed	When Assessed	Standard of Mastery	What Is Hoped to Be Learned?	Notes
<p>Knowledge - #1</p> <p>Demonstrate a basic understanding of biological principles (biological literacy). The specific principles to be examined are</p> <ul style="list-style-type: none"> a. chemical basis of biology including metabolism b. cell biology c. genetics d. evolution and natural selection e. ecology f. physiology g. development h. diversity of life 	1	2	<p>40 question multiple choice test (direct measure)</p> <p>student survey about how much they know, given after m/c test (indirect measure)</p>	Seniors in courses (need to select 400-level courses)	Spring every year; department designates day(s); students take test during regular 400-level course class time	70% of students score 70% or better on test.	<p>What proportion of students is achieving 70% or better for each outcome? Is this proportion above or below the standard of mastery (70% of students meet standard)? The results will be reported back to the department, and we will jointly decide further steps to take.</p>	
<p>Knowledge – #2</p> <p>Demonstrate an in-depth understanding of biological principles specific to student's option. The principles for</p>	1, 2, 3	2	<p>m/c test (10 questions per option) with reason for answer OR essay (direct measure)</p>	Seniors in courses (need to select 400-level courses)	Same as above	Same as above	Same as above	

<p>each option can be found on the last page.</p>			<p>Student survey about how much they know, given after m/c test (indirect measure)</p> <p>Faculty in options write these items. Can be from exams in your courses or new items.</p> <p>Should measure holistic knowledge of your option and related knowledge in column to left</p> <p>Faculty in options develop grading rubric and grade these items</p>	<p>Seniors self-select their option and take the corresponding test</p>				
<p>Skills - Demonstrate the ability to apply scientific method to a biological problem. Specifically, the students will be able to a. read about a biological phenomenon and develop a testable hypothesis b. evaluate the design of a controlled experiment to that answers a biological question</p>	2	2	<p>m/c test questions about an experiment (direct measure)</p> <p>Student survey about how much they know given after m/c test (indirect measure)</p>	<p>Seniors in courses (need to select 400-level courses)</p>	Same as above	Same as above	Same as above	

<p>c. evaluate the design of a field study that answers an ecological question d. evaluate the design of an experiment that answers a cell biology question using techniques such as gel electrophoresis e. analyze the experimental results and apply the analysis to the problem being studied</p>								
<p>Attitudes – Students should demonstrate the following qualities. Students should be able to a. demonstrate curiosity about biology b. continue to pursue biological knowledge even when it becomes boring or repetitive, or requires overcoming a barrier c. learn about biology without being rewarded externally (i.e. through grades or money)</p>	<p>8, 9, 10</p>	<p>2, 5</p>	<p>Enrollment in 499, URC participants, grant applications to bio dept (direct measure)</p>	<p>All students in program – departmental data used</p>	<p>Data for school year compiled every spring semester</p>	<p>Collect baseline data for several years. Expect same % enrollment and participation as previous year. 70% of students have average attitude scores of 3 (agree) or better.</p>	<p>If % enrollment and participation fall 10% below baseline, the department will jointly decide further steps to take. If less than 70% of students have average attitude scores of 3 or more, the department will jointly decide further steps to take.</p>	
<p>Student survey about attitudes given after m/c test (indirect measure)</p>	<p>Seniors in courses (need to select 400-level courses)</p>	<p>Same as above</p>						

Knowledge – #2

Demonstrate an in-depth understanding of biological principles specific to student's option. The biological principles that apply to each option follow.

Option 1 – Human Biology

- a. Anatomy of the human body
- b. Integrative function of organ systems in the human body
- c. Cell biology
- d. Infectious diseases of the human body
- e. Tissues of the human body
- f. Development of the human body
- g. Aging of the human biology
- h. Chronic diseases of the human body
- i. Neural regulation of organ systems in the human body
- j. Endocrine regulation of organ systems in the human body
- k. Cardiovascular function of the human body

Option 2 – Plant Sciences

Option 3 – Microbiology

- a. Gram stain
- b. Enumeration of bacteria (plate count)
- c. General structure of bacterial cell
- d. Basic metabolic pathway interactions
- e. Interpretation of growth curve
- f. How to read data tables or graphs
- g. Bacterial genetics

Option 4 – Toxicology

Option 5 – Cytotechnology

- a. basic cell structure and cellular biology including cell division and growth and general mechanisms of pathologic change
- b. normal and abnormal anatomy, physiology, histology, pathology, and cytology of the genital tract, respiratory tract, urinary tract, gastrointestinal tract, cerebrospinal fluid, and body cavity fluids.
- c. benign conditions, inflammatory disorders, malignancies, and therapeutic effects that are involved in the various areas of cytology

d. the collection and preparation techniques in cytology

Option 6 – Ecology

- a. global patterns of climactic variation and nutrient cycles
- b. bioenergetics
- c. evolutionary causes of mate choice and sociality
- d. population genetics
- e. causes of evolution: natural selection, drift, gene flow, mutation
- f. demographic processes: mortality, natality, growth, and dispersal
- g. life-history evolution
- h. geographic limits of animal distribution
- i. interspecific relationships: competition, exploitation, and mutualism
- j. community ecology
- k. ecosystem energetics
- l. global ecology

Option 7 – Zoology

Option 8 – Physiology

Options 9 and 10 – General Biology and Biobusiness

These options require in-depth understanding of the biological principles listed under “Knowledge #1” since the understanding required there is at a basic level, and a general biology major should understand ALL of these principles at both the basic level and in-depth level. Other options require more specific understandings since their courses contain more specific content. Biobusiness majors are general biology majors with a business minor, and as biologists, we cannot develop business test items. Therefore we will be sure to test the general biology knowledge of the biobusiness majors.

Marg, Gregg A

From: Nord, Roland
Sent: Tuesday, October 17, 2006 10:10 AM
To: Krenz, John D
Cc: Marg, Gregg A; Banschbach, John
Subject: RE: ENG 271

John,

Thank you for the note.

Yes, we can accommodate your students and look forward to working with them.

Roland

Roland Nord, technical communication program director
English Department
230 Armstrong Hall
Minnesota State University, Mankato
Mankato, MN 56001
507-389-5402
roland.nord@mnsu.edu
<http://krypton.mnsu.edu/~nord/>

From: Krenz, John D
Sent: Friday, October 13, 2006 6:24 PM
To: Nord, Roland
Cc: Marg, Gregg A
Subject: ENG 271

Dr. Nord,

We currently have ENG 271 as a "recommended" course listed in our bulletin for our ecology and zoology options in Biology. I would like to change the course to "required." Can you accommodate? I am not too sure of the number of biology students already taking 271 ... we have probably about 30 ecology majors and about 20 zoology majors (those are totals ... maybe Gregg Marg can give you more-accurate numbers). I guess the total number taking 271 at any one time from Biology would surely be less than 20.

- John

copy: Gregg Marg

John D. Krenz
Department of Biological Sciences
Minnesota State University
Mankato MN 56001

john.krenz@mnsu.edu
www.mnsu.edu

(507) 389-5735 office
389-2788 fax
389-2786 department

10/19/2006

Marg, Gregg A

From: Krenz, John D
Sent: Thursday, October 19, 2006 1:33 PM
To: Marg, Gregg A
Subject: FW: HLTH 475

From: Bohnenblust, Stephen E
Sent: Thu 10/19/2006 12:46 PM
To: Krenz, John D
Subject: RE: HLTH 475

Hi John,

We just happened to be having a department curriculum committee meeting yesterday. We do believe we have the resources to offer an additional section, so our answer is yes.

Steve B.

From: Krenz, John D
Sent: Thursday, October 19, 2006 11:58 AM
To: Bohnenblust, Stephen E
Cc: Marg, Gregg A
Subject: HLTH 475

Steve – We discussed the possibility our requiring ecology students to take HLTH 475 (at present many of them already take it, but now we may begin to require it ... so I guess there may be an additional 10 or 20 per year at most). Our department is considering this change tomorrow on Friday and Gregg Marg asked me whether I had an email from you about your ability to accommodate. Could you reply to us on this question, please? Thanks - John

John D. Krenz
Department of Biological Sciences
Minnesota State University
Mankato MN 56001

john.krenz@mnsu.edu
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507 304 1012 cell

Department of Biological Sciences
Department Meeting Minutes
October 20, 2006, 12:03 PM

07255

Present: Lois Anderson, Mike Bentley, Bill Bessler, Brad Cook, Shannon Fisher, Geoff Goellner, Penny Knoblich, Beth Lavoie, Gregg Marg, Beth Proctor, Karen Radermacher, Christopher Ruhland, Robert Sorensen, Dan Toma, Ned Williams,

Absent: Chris Conlin, Margaret Durkee, Dave Grams, Marilyn Hart, John Krenz, Alison Mahoney (sabbatical), Brock McMillan (sabbatical), Steven Mercurio, Donovan Nielsen, Brent Pearson, Becky Pierce, Tim Secott, Dorothy Wrigley

The minutes of the October 13, 2006 meeting were approved as written.

[Unrelated portion deleted]

CURRICULUM:

Several curriculum proposals were presented. Motions were made to approve the following changes:

- 1) Proposal to add Biology 211 Genetics as a prerequisite to Biology 301 Evolution.
- 2) Proposal to add Biology 215 General Ecology as a prerequisite to Biology 436 Animal Behavior.
- 3) Proposal to change the title and description of Biology 402/502. The current title is Stream Limnology and the proposed title is Stream Ecology. The title needs to be changed and the course description added to the Undergraduate Bulletin and the title and course description need to be revised in the Graduate Bulletin.

There was no discussion on the above proposals. All three motions carried.

- 4) Proposal to change two requirements in the Ecology option. STAT 154 Statistics would be dropped (HLTH 475 Biostatistics would still be required) and ENG 271 would be changed from "recommended support" to "required support".

After much discussion on the pros and cons of dropping STAT 154, the motion carried.

- 5) Proposal to drop ENVR 410 and add ENVR 470 to Environmental Sciences Minor.
- 6) Proposal to change ENVR 600 to ENVR 570 for the Graduate Program in Environmental Sciences
- 7) Proposal to add CHEM 106 Introduction to Chemistry or CHEM 201 General Chemistry to the "required general education courses", add STAT 154 to the "required support courses" and add BIOL 106 General Biology II and ENVR 470 Environmental Assessment to the "required for major" (core) courses for the Undergraduate Program in Environmental Sciences.

Discussion followed each of these proposals. All three motions to approve these proposals carried.

[Unrelated portion deleted.]

The meeting was adjourned at 12:55 PM.

07255

Marg, Gregg A

From: Nord, Roland
Sent: Tuesday, October 17, 2006 10:10 AM
To: Krenz, John D
Cc: Marg, Gregg A; Banschbach, John
Subject: RE: ENG 271

John,

Thank you for the note.

Yes, we can accommodate your students and look forward to working with them.

Roland

Roland Nord, technical communication program director
English Department
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Sent: Friday, October 13, 2006 6:24 PM
To: Nord, Roland
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Subject: ENG 271

Dr. Nord,

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- John

copy: Gregg Marg

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Department of Biological Sciences
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389-2786 department

10/20/2006

College of Science, Engineering and Technology
Curriculum Committee Meeting Minutes
WA 303, Tuesday, October 31, 2006

Present: Harry Petersen (AMET), Beth Lavoie (Biology), Jim Rife (Chemistry/Geology), Gregg Asher (CIS), Julio Mandojana (ECET), Brian Wasserman (IDCM), Dan Singer (Math/Statistics), Karen Chou (ME/CivE), Youwen Xu (Physics/Astronomy), Mahbubur Syed (UCAP Representative for CSET).

Guests: David Haglin (CIS), Bill Hudson (ECET)

1. The meeting was called to order at 8:06 AM.
2. The minutes of 10-24-2006 meeting was approved as written.
3. Karen Chou thanked Jim Rife and Gregg Asher for chairing the 10-24-06 meeting.
4. David Haglin and Bill Hudson attended in order to clarify any confusion in the proposal CIS and ECET submitted. Bill Hudson also brought some of the previously required documentation to the committee for reviewing.
5. The committee reviewed 165 proposals. 164 proposals were approved contingent upon the required materials submitted in proper format. Please see attached spreadsheet for details. Proposal 07168 was tabled for insufficient of information.
3. Jim Rife left at 9 AM, and Beth Lavoie left at 9:20 AM, due to prior commitment.
4. Several members of the committee suggested UCAP to allow "Class action" for simple proposals such as change of designators or change of prerequisites. It would save the related parties a lot of work.
5. Two proposals were delivered to us yesterday (10-30-06) afternoon at 4 PM. Many committee members did not have a chance to review the proposal. They are general education proposals. We may vote on these proposals using email if possible.

Meeting adjourned at 9:50 am.

Respectfully submitted,

Youwen Xu, Secretary

Curriculum Committee		10/31/2006					
Proposal Review Summary							
		Present					Guest:
Beth Lavoie (Biology)		yes					Bill Hudson
Brian Wasserman (IDCM)		yes					David Haglin
Dan Singer (Math/Statistics)		yes		UCAP Rep			Mahbubur Syed
Gregg Asher (CIS)		yes					
Harry Petersen (AMET)		yes					
Julio Mandojana (ECET)		yes					
Jim Rife (Chemistry & Geology)		yes					
Karen Chou (ME/CIVE)		yes					
Youwen Xu (Physics/Astronomy)		yes					
Dept.	Type	Description	M	S	Appr	Comments/need	
CIS	Change in Requirements-Courses Added	Program Redesign					
CIS	Change in Requirements-courses deleted	see list				withdrew	
CS	Redesign: Bulletin Copy Changes	List of deleted courses				withdrew	
CS	Redesign: Changes in Courses	Computer Science				Yes	Combine with 0776
CIS	Program redesign-name change	Computer Science				Yes	
Chem/Geo	Change in Req- Courses(s) added	From manage. Of inform sys. To Inform. Sys.				Yes	
Chem/Geo	Change in Req- Courses(s) added	Chemistry BA				Yes	
CS	Redesign-Change in Bulletin	Chemistry Minor				Yes	
Math/Stats	Redesign-Add/Delete Program Of	Computer Science				Yes	Combine with 0776
Math/Stats	Prog. Redesign-added courses	Statistics				Yes	Excess information is provided
Biology	Change in Req.-Course(s) Added					Yes	Need outcome assessment plan
Biology	Change in Req.- Course(s) Added					Yes	Side by side prog. Comparison
Biology	Change in Req- Course(s) added					Yes	Side by side prog. Comparison
Biology	Change in Req- Course(s) added					Yes	Side by side prog. Comparison
CIS	Change in designator	COMS 202 to ISYS202				Yes	Side by side prog. Comparison
						Yes	202W?

proposal # 197
(letter from Stat)

Mahbub Syed

From: "Marg, Gregg A" <gregg.marg@mnsu.edu>
To: "Syed, Mahbubur R" <mahbubur.syed@mnsu.edu>
Sent: Friday, February 09, 2007 9:55 AM
Subject: FW: change in an elective

Here is the note for STAT 154 that you needed for the Ecology option changes.

Gregg

From: Pearson, Larry M
Sent: Friday, February 09, 2007 9:48 AM
To: Marg, Gregg A
Subject: RE: change in an elective

Gregg,

I have discussed this change in requirements for the BS Biology Ecology option with our department curriculum committee. This change will not affect the number of sections of STAT 154 offered each semester or summer and will add consistency to your program. As a result I support this change.

Larry Pearson

From: Marg, Gregg A
Sent: Tuesday, February 06, 2007 2:13 PM
To: Pearson, Larry M
Subject: change in an elective

Hi Larry,

We are modifying our BS Biology:Ecology option. One of the modifications relates to your department. In the past, students were required to take either HLTH 475 or STAT 154. The vast majority of the students in this option take HLTH 475. Mostly for the sake of consistency, we plan to change the requirement to HLTH 475 specifically and drop STAT 154. My guess is that you won't notice the difference since only 3-4 student per year seem to choose STAT 154.

As part of the curriculum process, I need a note from you indicating that you are aware of our proposed modification. If you have concerns or objections to the change, please include them as well. I believe an email note is sufficient. If you want to talk to me about this, I would be happy to meet with you at your convenience.

Thanks,
 Gregg Marg

Proposal

197**Mahbub Syed**

From: "Marg, Gregg A" <gregg.marg@mnsu.edu>
To: "Syed, Mahbubur R" <mahbubur.syed@mnsu.edu>
Sent: Friday, February 09, 2007 9:55 AM
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Gregg

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To: Marg, Gregg A
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Larry Pearson

From: Marg, Gregg A
Sent: Tuesday, February 06, 2007 2:13 PM
To: Pearson, Larry M
Subject: change in an elective

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Thanks,
Gregg Marg

Proposal #197
AKIM

Minnesota State Colleges and Universities PROGRAM REDESIGN APPLICATION

RELATED POLICY or STATUTE: MS 1996, Ch. 368, Sec. 33; MS 1995, Ch. 248, Article 11, Sec. 10; and MS 1996, Ch. 398, Sec. 38; Board Policy 3.14, 3.17, 3.19

SECTION I: DESCRIPTION OF CURRENTLY APPROVED PROGRAM

8-Digit CIP #	Program Name	Award	Cr Length	Location/s
	Biology: Ecology	BS	69 (including required general education courses)	MSU Mankato

Name of affiliated educational institution that offers one or more credits in this program: NA

Is this award jointly offered: Yes No

SECTION II: PROPOSED CHANGES TO PROGRAM

Effective start date/s: Fall 2007

Rationale for Proposed Change/s: Assessment of program graduates indicated the need for a technical communication course.

*Contact staff to determine whether change is permitted as a redesign, or whether a new program proposal is required.

Section IIC: CHANGE CREDIT LENGTH WITHIN POLICY

Previous: 69 (including 13 required general education credits)

Proposed: 73 (including 13 required general education credits) All current graduation and major requirements can still be met within 128 credits.

SECTION IV: APPROVAL VERIFICATION

Application Author: Gregg Marg 

Title: Chairperson, Department of Biological Sciences

Campus: Minnesota State University, Mankato

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Approval Chief Academic Officer:

Approval of President:

Signature of cooperating institution's president for joint awards: