



Minnesota State University, Mankato
Curriculum Proposal

HOLD and CLEAR buttons only compatible with Acrobat X and 5

07216
REVISED

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.

College: Science, Engineering and Technology		(Check all that apply):		Proposal #	229
Department: Mathematics and Statistics		<input checked="" type="checkbox"/> Undergraduate		Effective Date of Change:	
Program:		<input type="checkbox"/> Graduate		Academic Year	06-07
Type of Change: COURSE PROPOSALS		CIP #		(For Office Use Only)	
Proposed: Change in Course—Other				Course Designator and Number	Number of Credits
Title Current: Mathematical Reasoning				Math 184	3
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):

Pre: Must achieve a score of 18 or better on the MnSCU Math Readiness Test, or have achieved an ACT Math subscore of 19 or higher, or successful completion of MATH 098.

Rationale or Justification for change:

Equivalent to current prerequisite of 3 years of high school mathematics and will allow us to enforce the prerequisite electronically at registration.

For General Education or Cultural Diversity Courses Only

<p>General Education Course:</p> <table border="1"> <tr> <th>GE Category #</th> <th>GE Category Name (Maximum of 3 Categories)</th> </tr> <tr> <td>N/A</td> <td></td> </tr> <tr> <td>N/A</td> <td></td> </tr> <tr> <td>N/A</td> <td></td> </tr> </table>		GE Category #	GE Category Name (Maximum of 3 Categories)	N/A		N/A		N/A		<p>Cultural Diversity Course:</p> <p>(Please check one.)</p> <p><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.)</p> <p><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.)</p>
GE Category #	GE Category Name (Maximum of 3 Categories)									
N/A										
N/A										
N/A										
<p>7 For Writing Intensive Courses, attach a description of the kind and quantity of writing.</p> <p>7 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>										
<p>Attach paper copies of the following:</p> <ol style="list-style-type: none"> Syllabus or course outline. Course's student learning outcomes associated with each GE competency or CD designation. 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: 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:		
<ol style="list-style-type: none"> Syllabus or course outline. Course's student learning outcomes. A list of resources required to offer and support this course. A description of how teaching this course will affect department staffing. If 400/500 level course, an explanation of added expectations of graduate students. 		



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Signature Page

Department		
<input checked="" type="checkbox"/> Recommended (Category/ies _____)	<u>Larry M Pearson</u>	<u>10/18/06</u>
<input type="checkbox"/> Not Recommended (Category/ies _____)	Department Chair	Date
Comments:		
College Curriculum Committee		
<input checked="" type="checkbox"/> Recommended (Category/ies _____)	<u>Karen 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>JC-M</u>	<u>3/1/07</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>3/12/07</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>3/13/07</u>
<input type="checkbox"/> Not Approved (Category/ies _____)	Sr. Vice President / Vice Pres. Academic Affairs	Date
Comments:		

Mathematics and Statistics Department
Meeting Minutes
October 16, 2006

Present: Boyd, Guy, Haskins, Hermann, Kapplinger, Kim, B. Lee, N. Lee, Martensen, Pearson, Rahman, Regas, Sanjel, Singer, Waters, Wiest, Zuiker.

Minutes of the September 15, 2006 meeting were approved by consensus.

Mark Zuiker presented the proposal for the Broad Major in Statistics. (See attached)

Zuiker moved that Stat 492 Capstone Experience be approved and sent to the college curriculum committee. It was seconded by Wiest, a vote was taken and it was approved.

Zuiker moved that the Broad Statistics Major be accepted and sent to the college curriculum committee. Waters seconded the motion.
Motion passed.

Bill Lee moved and that the prerequisites for Stat 154 and Math 130 be changed to

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Boyd seconded the motion.
Motion passed.

Boyd moved that the catalog description on Math 181 delete the words "to the fields of business and economics" Namyong Lee seconded the motion. A vote was taken and the motion passed.

The curriculum committee was given the charge to review all prerequisites in the catalog. The committee was also charged with developing a calculus course that will meet the needs of students seeking middle school licensure.

Zuiker moved that the department support CS option to take Math 181 for their new major. Wiest seconded the motion. A vote was taken and the motion passed.

Rahman presented a proposal for two MAX Scholar Seminars. (See attached)
Namyong Lee moved that the MAX Courses be accepted.
Zuiker seconded the motion.
Motion passed.

Zuiker reported on the status of Chaska High School students' concurrent enrollment in Math 112. After the first year requirements to enroll in the course will be the same as on campus, There will be 3 sight visits, tests will be monitored for content and students will take the same final as students on campus.

Rahman reminded the faculty that the department does not have a representative to the search committee for the new dean and asked for volunteers.

Math 184 – Prerequisite Change

Old Catalog Description

MATH 184 (3) Mathematical Reasoning

Designed to increase a student's ability to reason quantitatively and to communicate mathematics effectively through verbal, graphical, and symbolic forms. The acquisition of both mathematical skills and higher-order thinking are learning outcomes. Students will learn how technology can be used to solve mathematical problems. An integral part of this course is student interpretation and evaluation of real-data models and contemporary applications. Students will learn modeling strategies and relevant historical perspectives of mathematics.

Pre: Three years of high school mathematics

GE-4

New Catalog Description

MATH 184 (3) Mathematical Reasoning

Designed to increase a student's ability to reason quantitatively and to communicate mathematics effectively through verbal, graphical, and symbolic forms. The acquisition of both mathematical skills and higher-order thinking are learning outcomes. Students will learn how technology can be used to solve mathematical problems. An integral part of this course is student interpretation and evaluation of real-data models and contemporary applications. Students will learn modeling strategies and relevant historical perspectives of mathematics.

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GE-4