

0653



# 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 #	207
College:	Science, Engineering and Technology	<input checked="" type="checkbox"/>	Undergraduate	Effective Date of Change:	
Department:	Chemistry and Geology	<input type="checkbox"/>	Graduate	Academic Year	05-06
Program:		CIP #		(For Office Use Only)	
Type of Change	COURSE PROPOSALS			Course Designator	Number of
Proposed:	Change in Course—Other			and Number	Credits
Title Current:	Multiple Courses, Please see attached			Multiple, see Attached	
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):

see attached list

Rationale or Justification for change:

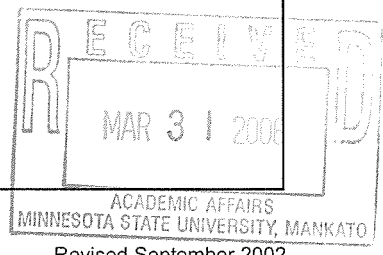
New prerequisites require a grade of C or better in the required course(s) to ensure students have the appropriate level of skill and ability.

**\*\*\*For General Education or Cultural Diversity Courses Only\*\*\***

<b>General Education Course:</b>		<b>Cultural Diversity Course:</b> (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> <p>Attach paper copies of the following:</p> <ol style="list-style-type: none"> <li>Syllabus or course outline.</li> <li>Course's student learning outcomes associated with each GE competency or CD designation.</li> <li>List of strategies to be used to assess students' achievement of each GE competency or CD designation.</li> </ol>		

**\*\*\*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 checked="" type="checkbox"/>	Pre- or Co-requisites:	Please see attached		<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"> <li>Syllabus or course outline.</li> <li>Course's student learning outcomes.</li> <li>A list of resources required to offer and support this course.</li> <li>A description of how teaching this course will affect department staffing.</li> <li>If 400/500 level course, an explanation of added expectations of graduate students.</li> </ol>					



Proposed Chemistry Prerequisites

Course	Current Prerequisite	Proposed Prerequisite
✓ 201	Pre: MATH 112 or equivalent; high school Chemistry, CHEM 104, or instructors consent	Pre: C or better in MATH 112 or equivalent; high school Chemistry or CHEM 104
✓ 202	Pre: CHEM 201	Pre: C or better in CHEM 201
✓ 305	Pre: CHEM 202	Pre: C or better in CHEM 202
✓ 321	Pre: CHEM 320	Pre: C or better in CHEM 320
✓ 360	Pre: CHEM 320	Pre: C or better in CHEM 320
✓ 407	Pre: CHEM 305	Pre: C or better in CHEM 305
✓ 415	Pre: CHEM 413	Pre: C or better in CHEM 413
✓ 437	Pre: CHEM 305, 320; Pre or Co: CHEM 360 or 460	Pre: C or better in CHEM 305; CHEM 320; Pre or Co: CHEM 360 or 460
✓ 445	Pre: CHEM 441	Pre: C or better in CHEM 441
✓ 460	Pre: CHEM 320 and BIOL 106	Pre: C or better in CHEM 320; BIOL 106
✓ 475	Pre: CHEM 305; PHYS 212 or 222 is recommended	Pre: C or better in CHEM 305; PHYS 212 or 222 is recommended



Minnesota State University, Mankato  
Curriculum Proposal

\*\*\*Signature Page\*\*\*

**Department**

Recommended (Category/ies \_\_\_\_\_)  
 Not Recommended (Category/ies \_\_\_\_\_)

Brian Groh  
Department Chair

3-28-06  
Date

Comments:

**College Curriculum Committee**

Recommended (Category/ies \_\_\_\_\_)  
 Not Recommended (Category/ies \_\_\_\_\_)

Alis Mahoney  
Committee Chair

3-28-06  
Date

Comments:

**College Dean**

Recommended (Category/ies \_\_\_\_\_)  
 Not Recommended (Category/ies \_\_\_\_\_)

[Signature]  
Dean

3/28/06  
Date

Comments:

**General Education Subcommittee**

Recommended (Category/ies \_\_\_\_\_)  
 Not Recommended (Category/ies \_\_\_\_\_)

General Education Subcommittee Chair

Date

Comments:

**Undergraduate Curriculum and Academic Policy Committee**

Recommended (Category/ies \_\_\_\_\_)  
 Not Recommended (Category/ies \_\_\_\_\_)

[Signature]  
UCAR Faculty Chair

4/28/06  
Date

Comments:

**Faculty Association Graduate Committee**

Recommended  
 Not Recommended

Faculty Association Graduate Chair

Date

Comments:

**Graduate Dean**

Recommended  
 Not Recommended

Graduate Dean

Date

Comments:

**Academic Affairs Council**

Recommended (Category/ies \_\_\_\_\_)  
 Not Recommended (Category/ies \_\_\_\_\_)

[Signature]  
Assistant Vice President

5/4/06  
Date

Comments:

**Senior Vice President and Vice President for Academic Affairs**

Approved (Category/ies \_\_\_\_\_)  
 Not Approved (Category/ies \_\_\_\_\_)

[Signature]  
Sr. Vice President / Vice Pres. Academic Affairs

5/4/06  
Date

Comments: