



LSC Use Only  
Number: \_\_\_\_\_  
Submission Date: \_\_\_\_\_  
Action-Date: \_\_\_\_\_

UWUCC USE Only  
Number: 99-52  
Submission Date: \_\_\_\_\_  
Action-Date: App 4/18/00

Senate App 5/2/00

**CURRICULUM PROPOSAL COVER SHEET**  
University-Wide Undergraduate Curriculum Committee

**I. CONTACT**

Contact Person Dr. Jacqueline Gorman Phone 357 2608  
Department Mathematics

**II. PROPOSAL TYPE (Check All Appropriate Lines)**

**COURSE** \_\_\_\_\_  
Suggested 20 character title  
 **New Course \*** \_\_\_\_\_  
Course Number and Full Title  
 **Course Revision** \_\_\_\_\_  
Course Number and Full Title  
 **Liberal Studies Approval +** \_\_\_\_\_  
for new or existing course Course Number and Full Title  
 **Course Deletion** \_\_\_\_\_  
Course Number and Full Title  
 **Number and/or Title Change** \_\_\_\_\_  
Old Number and/or Full Old Title  
\_\_\_\_\_  
New Number and/or Full New Title  
 **Course or Catalog Description Change** \_\_\_\_\_  
Course Number and Full Title

**PROGRAM:**  Major  Minor  Track  
 **New Program \*** \_\_\_\_\_  
Program Name  
 **Program Revision \*** Secondary Mathematics Education  
Program Name  
 **Program Deletion \*** \_\_\_\_\_  
Program Name  
 **Title Change** \_\_\_\_\_  
Old Program Name  
\_\_\_\_\_  
New Program Name

**III. Approvals (signatures and date)**

Ann L. Massery 12/8/99  
Department Curriculum Committee  
[Signature] 12/17/99  
College Curriculum Committee  
[Signature]  
Department Chair  
[Signature] 12/17/99  
College Dean  
[Signature]  
\*Provost (where applicable)

+Director of Liberal Studies (where applicable)

## Part II. Description of Curriculum Changes

### 1. Catalog description for the revised program in the appropriate form.

#### Bachelor of Science in Education - Mathematics Education

**Liberal Studies:** As outlined in Liberal Studies Section **50-52**  
with the following specifications:

Mathematics: (included in major)

Social Science: PC 101

Liberal Studies electives: no courses with MA prefix

**College:** **29**

#### Professional Education sequence

ED242 Pre-student Teaching Clinical Experience I 1sh

ED342 Pre-student Teaching Clinical Experience II 1sh

ED441 Student Teaching 12sh

ED442 School Law 1sh

ED456 Teaching Mathematics in the Secondary School 3sh

EP202 Educational Psychology 3sh

EP377 Educational Tests and Measurements 3sh

EX301 Education of Students with Disabilities in an  
Inclusive Secondary Settings 2sh

FE202 American Education in Theory and Practice 3sh

**Major:** **38**

#### Required courses:

MA117 Principles of Mathematics 3sh

MA123 Calculus I for Physics, Chemistry, Mathematics 4sh

MA 124 Calculus II for Physics, Chemistry, Mathematics 4sh

MA171 Introduction to Linear Algebra 3sh

MA216 Probability/Statistics for Natural Sciences 4sh

MA271 Introduction to Mathematical Proofs I 3sh

MA272 Introduction to Mathematical Proofs II 3sh

MA350 History of Mathematics 3sh

MA353 Theory of Numbers 3sh

MA355 Foundations of Geometry I 3sh

MA460 Technology in Mathematics Instruction 3sh

Two of the following: MA452/453/454/455 Math Seminar 2sh

**Other Requirements:** **3**

CO205 Programming Languages for Secondary Schools 3sh

**Free Electives:** **2-4**

**Total Degree Requirements:** **124**

<b>Proposed Program</b>	
<b>Bachelor of Science in Education - Mathematics Education</b>	
<b>Liberal Studies:</b> As outlined in Liberal Studies Section	<b>50-52</b>
with the following specifications:	
Mathematics: (included in major)	
Social Science: PC 101	
Liberal Studies electives: no courses with MA prefix	
<b>College:</b>	<b>29</b>
<b>Professional Education sequence</b>	
ED242 Pre-student Teaching Clinical Experience I	1sh
ED342 Pre-student Teaching Clinical Experience II	1sh
ED441 Student Teaching	12sh
ED442 School Law	1sh
ED456 Teaching Mathematics in the Secondary School	3sh
EP202 Educational Psychology	3sh
EP377 Educational Tests and Measurements	3sh
EX301 Edof Stdnts with Disabilities in Inclusive Sec. Setting	2sh
FE202 American Education in Theory and Practice	3 sh
<b>Major:</b>	<b>38</b>
<b>Required courses:</b>	
MA117 Principles of Mathematics	3sh
MA123 Calculus I Physics, Chem, Math	4sh
MA 124 Calculus I Physics, Chem, Math	4sh
MA171 Intro to Linear Algebra	3sh
MA216 Probability/Statistics for Natural Sciences	4sh
MA271 Intro. to Math Proofs I	3sh
MA272 Intro. to Math Proofs II	3sh
MA350 History of Mathematics	3sh
MA353 Theory of Numbers	3sh
MA355 Foundations of Geometry I	3sh
MA460 Technology in Math Instruction	
MA452/453/454/455 Math Seminar	2sh
<b>Other Requirements:</b>	<b>3</b>
CO205 Programing Languages for Secondary Schools	3sh
<b>Free Electives:</b>	<b>2-4</b>
<b>Total Degree Requirements:</b>	<b>124</b>

<b>Present Program</b>	
<b>Bachelor of Science in Education - Mathematics Education</b>	
<b>Liberal Studies:</b> As outlined in Liberal Studies Section	<b>50-52</b>
with the following specifications:	
Mathematics: (included in major)	
Social Science: PC 101	
Liberal Studies electives: no courses with MA prefix	
<b>College:</b>	<b>29</b>
<b>Professional Education sequence</b>	
ED242 Pre-student Teaching Clinical Experience I	1sh
ED342 Pre-student Teaching Clinical Experience II	1sh
ED441 Student Teaching	12sh
ED442 School Law	1sh
ED456 Teaching Mathematics in the Secondary School	3sh
EP202 Educational Psychology	3sh
EP377 Educational Tests and Measurements	3sh
EX301 Edof Stdnts with Disabilities in Inclusive Sec. Setting	2sh
FE202 American Education in Theory and Practice	3 sh
<b>Major:</b>	<b>38</b>
<b>Required courses:</b>	
MA117 Principles of Mathematics	3sh
MA123 Calculus I Physics, Chem, Math	4sh
MA 124 Calculus I Physics, Chem, Math	4sh
MA171 Intro to Linear Algebra	3sh
MA216 Probability/Statistics for Natural Sciences	4sh
MA271 Intro. to Math Proofs I	3sh
MA272 Intro. to Math Proofs II	3sh
MA350 History of Mathematics	3sh
MA353 Theory of Numbers	3sh
MA355 Foundations of Geometry I	3sh
MA460 Technology in Math Instruction	
MA452/453/454 Math Seminar	2sh
<b>Other Requirements:</b>	<b>3</b>
CO205 Programing Languages for Secondary Schools	3sh
<b>Free Electives:</b>	<b>2-4</b>
<b>Total Degree Requirements:</b>	<b>124</b>

## **2. Summary of Changes:**

### **b. List of all associated course changes:**

The present Secondary Mathematics Education program requires students to complete two seminars from a list consisting of MA452 Seminar in Teaching Algebra, MA453 Seminar in Teaching Geometry, and MA454 Seminar in Teaching General Mathematics. The Mathematics Department is proposing to change the program by adding a fourth seminar to choose from, namely MA455 Seminar in Teaching Probability and Statistics.

### **c. Rationale for Change.**

The purpose of the seminars is to give students the opportunity to learn more about how to teach certain subjects that will probably be part of their responsibilities as in-service teachers. Probability and statistics has been added to the curriculum in many high schools, and the faculty of the Mathematics Department believe there is a need to prepare our students to teach such a course. Consequently, we wish to add it to the list of choices for Pre-service teachers.

## **Part III. Implementation**

### **1. How will the proposed revision affect students already in the existing program?**

Students in the current program will be permitted to substitute MA455 for one of the current seminars.

### **2. How will the proposed revision affect faculty teaching loads? Have additional faculty been authorized? If you are adding requirements, how will adequate seats be provided?**

The Mathematics Department will continue to offer only one Seminar in Teaching each semester. We will rotate four seminars instead of three. This will have no effect on faculty workload.

### **3. Are other resources adequate? (Space, equipment, supplies, travel funds)**

Including MA455 in the choices for students will not affect resources in any way.

### **4. Do you expect an increase or decrease in the number of students as a result of these revisions? If so, how will the department adjust?**

No. We do not foresee that these changes will have any impact on our number of students.

## **Part IV. Course Proposals**

A course proposal was previously submitted for MA455 Teaching Probability and Statistics.

## **Part V. Letters of Support**

Since no other departments are affected, no letters of support are included.

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