LSC Use Only No: LSC Action-Date:	UWUCC USE Only No. 06-47a	UWUCC Action-Date: App 4/3/07	Senate Action Date: App 5/1/07

Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee

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Proposing Department/Unit Mathematics	Phone 7-2608

Check all appropriate lines and complete information as requested. Use a separate cover sheet for each course proposal and for each program proposal.

1. **Course Proposals (check all that apply)**

_____New Course _____Course Prefix Change _____Course Deletion

_____Course Revision _____Course Number and/or Title Change _____Catalog Description Change

Current Course prefix, number and full title	*Proposed* course prefix, number and full title, if changing

2. **Additional Course Designations: check if appropriate**

_____ This course is also proposed as a Liberal Studies Course. _____ Other: (e.g., Women's Studies,

_____ This course is also proposed as an Honors College Course. Pan-African)

3. **Program Proposals**

_____Catalog Description Change __X__Program Revision

_____New Degree Program _____Program Title Change _____Other

_____New Minor Program _____New Track

Bachelor of Science in Education-
Mathematics Education

Current program name	*Proposed* program name, if changing

4. **Approvals** — Date

		Date
Department Curriculum Committee Chair(s)	*Secondary Math Ed Comm.* *Jan Milaehn*	12-1-06
Department Chair(s)	*Gary Stoudt*	12-1-06
College Curriculum Committee Chair	*(signature)*	03/12/07
College Dean	*Gerald Buriok*	3/12/07
Director of Liberal Studies *	*Mary E Sadler*	3-29-07
Director of Honors College *		
Provost *	*(signature)*	7/10/07
Additional signatures as appropriate: (include title)	*Joseph Demarachi* TECC	2-5-07
	Mary Ann Rafoth COE-ET	2-5-07
UWUCC Co-Chairs	*Gail Sechrist*	4-3-07

* where applicable

1. Revised Program

Bachelor of Science in Education—Mathematics Education (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		48
Mathematics: MATH 125		
Liberal Studies Electives: 3cr, no courses with MATH prefix		

College: 29

Preprofessional Education Sequence:

COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr

Professional Education Sequence:

EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
EDUC 456	Teaching Math in the Secondary Schools	3cr

Major: 36

Required Courses:

MATH 126	Calculus II/Physics, Chemistry, and Mathematics	3cr
MATH 171	Introduction to Linear Algebra	3cr
MATH 216	Probability and Statistics for Natural Sciences	3cr
MATH 225	Calculus III/Physics, Chemistry, and Mathematics	3cr
MATH 271	Introduction to Mathematical Proofs I	3cr
MATH 272	Introduction to Mathematical Proofs II	3cr
MATH 340	Principles of Secondary School Mathematics	3cr
MATH 350	History of Mathematics	3cr
MATH 353	Theory of Numbers	3cr
MATH 355	Foundations of Geometry I	3cr
MATH 430	Seminar in Teaching Secondary School Mathematics	3cr
MATH 460	Technology in Mathematics Instruction	3cr

Other Requirements: 3

Computer Science:

COSC 110	Problem Solving and Structured Programming	3cr

Free Electives: 4

Total Degree Requirements: 120

2. *Summary of Changes*
a. Comparison Table

Bachelor of Science in Education—Mathematics Education (Current)		Bachelor of Science in Education—Mathematics Education (Revised)	

Liberal Studies: As outlined in Liberal Studies section with the following specifications:
Mathematics: MATH 123
Social Science: PSYC 101
Liberal Studies Electives: 3cr, no courses with MATH prefix   48

Liberal Studies: As outlined in Liberal Studies section with the following specifications:
Mathematics: MATH 125
Social Science: PSYC 101
Liberal Studies Electives: 3cr, no courses with MATH prefix   48

College:	29	**College:**	29

Preprofessional Education Sequence:

COMM 103	3cr	COMM 103	3cr
EDSP 102	3cr	EDSP 102	3cr

Professional Education Sequence:

EDEX 301	2cr	EDEX 301	2cr
EDSP 477	3cr	EDSP 477	3cr
EDUC 242	1cr	EDUC 242	1cr
EDUC 342	1cr	EDUC 342	1cr
EDUC 441	12cr	EDUC 441	12cr
EDUC 442	1cr	EDUC 442	1cr
EDUC 456	3cr	EDUC 456	3cr

Major:	35	**Major:**	36

Required Courses:

MATH 124	4cr	MATH 126	3cr
MATH 171	3cr	MATH 171	3cr
MATH 216	4cr	MATH 216	3cr
MATH 271	3cr	MATH 225	3cr
MATH 272	3cr	MATH 271	3cr
MATH 340	3cr	MATH 272	3cr
MATH 350	3cr	MATH 340	3cr
MATH 353	3cr	MATH 350	3cr
MATH 355	3cr	MATH 353	3cr
MATH 430	3cr	MATH 355	3cr
MATH 460	3cr	MATH 430	3cr
		MATH 460	3cr

Other Requirements	3	**Other Requirements**	3
COSC 110	3cr	COSC 110	3cr
Free Electives:	5	**Free Electives:**	4

Total Degree Requirements:	120	**Total Degree Requirements:**	120

2. Summary of Changes
b. Associated course changes

The two-course, 8 credit calculus sequence MATH 123 and MATH 124 is being replaced with the three-course, 9 credit calculus sequence MATH 125, 126, 225. This changes the Liberal Studies Mathematics requirement to MATH 125. MATH 126 and 225 are added as requirements and the course MATH 216 is reduced from 4 to 3 credits.

3. Rationale

The Mathematics Department has eliminated the two-course, 8 credit calculus sequence MATH 123 and MATH 124 and replaced it with a three-course, 9 credit calculus sequence MATH 125, 126, 225. The Mathematics Department also revised the MATH 216 course from 4 credits to 3. These changes are what is represented in the program revision.

III. Implementation

1. This change will take effect with the 2007 incoming freshman class. The Mathematics Department will continue to offer MATH 123 and MATH 124 as needed for students currently operating under the old program.

2. Faculty resources are adequate.

3. Other resources are adequate.

4. We do not expect these revisions to change the number of students in the program.

IV. Periodic Assessment

1. The program will be evaluated during the usual National Council for Accreditation of Teacher Education (NCATE) review that all education programs undergo. The NCATE standards used to evaluate are Candidate (Student) Knowledge, Skills, and Dispositions; Assessment System and Unit Evaluation; Field Experiences and Clinical Practice; Diversity; Faculty Qualifications, Performance, and Development; and Governance and Resources.

Also, before graduation and after the student teaching experience, each student participates in an exit interview with the Department's Coordinator of Student Teaching. During this interview the student evaluates the program in terms of what was useful in teaching, and what could be improved.

2. NCATE evaluations occur every five years. The exit interviews occur at the end of every semester.

3. National Council for Accreditation of Teacher Education, Pennsylvania Department of Education.

V. Course Proposals

MATH 125, 126, 225 and 216 proposals have been submitted separately.

VI. Letters of Support or Acknowledgement
None