

LSC Use Only No:	LSC Action-Date:	UWUCC USE Only No.	UWUCC Action-Date:	Senate Action Date:
		06-11	App. 9-26-06	App. 10-10-06

Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee

Contact Person Gary Stoudt	Email Address gsstoudt@iup.edu
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		
<u>Current</u> Course prefix, number and full title		<u>Proposed</u> 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, Pan-African) ☐ This course is also proposed as an Honors College Course.		
3. Program Proposals ☐ Catalog Description ☒ Program Revision Change ☐ New Degree Program ☐ Program Title Change ☐ Other ☐ New Minor Program ☐ New Track		
Bachelor of Science in Education—Mathematics Education		<u>Current</u> program name <u>Proposed</u> program name, if changing
4. Approvals		
Department Curriculum Committee Chair(s)	<i>Jane M. Walker</i>	Date 3-20-06
Department Chair(s)	<i>Gary Stoudt</i>	3-20-06
College Curriculum Committee Chair	<i>[Signature]</i>	06/29/06
College Dean	<i>Mary Ann Rafath / Sam Burch</i> 9/9/06	3-24-06
Director of Liberal Studies *	<i>[Signature]</i>	3-22-07
Director of Honors College *		
Provost *		
Additional signatures as appropriate: (include title)	<i>Joseph Domarache (TECC)</i>	3-29-06
UWUCC Co-Chairs	<i>Gail Sedquist</i>	9-26-06

Received

SEP 14 2006

* where applicable

Liberal Studies

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 123

Social Science: PSYC 101

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: 35

Required Courses:

MATH 124 Calculus II for Physics, Chemistry, and Mathematics 4cr

MATH 171 Introduction to Linear Algebra 3cr

MATH 216 Probability and Statistics for Natural Sciences 4cr

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

COSC 110 Problem Solving and Structured Programming 3cr

Free Electives: 5

Total Degree Requirements: 120

2. Summary of Changes**a. Comparison Table (next page)**

Bachelor of Science in Education— Mathematics Education (Current)

Liberal Studies: As outlined in 51
Liberal Studies section with the following
specifications:
Mathematics: MATH 123
Social Science: PSYC 101
Liberal Studies Electives: 6cr, no courses with
MATH prefix

College: 26

Professional Education Sequence:

EDEX 301	2cr
EDSP 102	3cr
EDSP 477	3cr
EDUC 242	1cr
EDUC 342	1cr
EDUC 441	12cr
EDUC 442	1cr
EDUC 456	3cr

Major: 35

Required Courses:

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

Other Requirements 3

COSC 110 3cr

Free Electives: 5

Total Degree Requirements: 120

Bachelor of Science in Education— Mathematics Education (Revised)

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

College: 29

Preprofessional Education Sequence:

COMM 103	3cr
EDSP 102	3cr

Professional Education Sequence:

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

Major: 35

Required Courses:

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

Other Requirements 3

COSC 110 3cr

Free Electives: 5

Total Degree Requirements: 120

2. Summary of Changes

b. Associated course changes

The Liberal Studies electives are reduced from 6cr to 3cr.

COMM 103 is added to this program. The Professional Education Sequence was broken into two parts, "Preprofessional Education Sequence" and "Professional Education Sequence" for consistency because it appears that other education programs in the catalog list it this way.

3. Rationale

The Bachelor of Science in Education—Mathematics Education program did not require COMM 301 Technology for Learning and Instruction (later COMM 103 Digital Instructional Technology) because our program met those standards using our own course, MATH 460 Technology in Mathematics Instruction. Since the electronic portfolio requirement has been established in the College of Education and Educational Technology, we have tried to offer workshops to help our students and we had help available in our secondary mathematics education curriculum lab. Unfortunately, the time required for portfolios is prohibitive and our students are still frustrated and do not feel they are getting the help they need.

As a result, we would like to add COMM 103 into our program. To remain at 120 credits, we will reduce by one the number of Liberal Studies electives students currently take. Thus, our program will still be at 120 hours and all the content will still be intact. Furthermore, students will benefit from having a good start on their electronic portfolio and know how to complete it throughout the entire program.

III. Implementation

1. Since this proposal will likely not make it through the curriculum process for Fall, 2006, this change will take effect with the 2007 incoming freshman class.
2. Faculty resources are adequate.
3. Other resources are adequate. The Communications Media Department supports the change.
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

None.

VI. Letters of Support or Acknowledgement

The Communications Media Department supports the change.

Hi Gary,

I was going through old emails and found this request. I could not remember if I gave you an answer other than verbally.

However, there is no problem here. Communication media can easily accomodate twenty additional students in Comm 103...

should you have other questions please let me know.. kurt

----- Original Message -----

From: "Gary Stoudt" <Gary.Stoudt@iup.edu>

To: <kdudt@iup.edu>

Sent: Thursday, February 23, 2006 11:44 AM

Subject: Support for Mathematics Education Revision

> Kurt,
>
> As we talked about before, I would like the support of the
> Communications Media Department to add COMM 103 to the requirements for
> Mathematics Education majors.
>
> The Mathematics Education program did not require COMM 301 Technology
> for Learning and Instruction (later COMM 103 Digital Instructional
> Technology) because our program met those standards using our own
> course, MATH 460 Technology in Mathematics Instruction. Since the
> electronic portfolio requirement has been established in the College of
> Education and Educational Technology and since the Portfolio Assistance
> Center in Davis Hall is no longer available to students, we have tried
> to offer workshops to help our students and we had help available in our
> secondary mathematics education curriculum lab. Unfortunately, the time
> required for portfolios is prohibitive and our students are still
> frustrated and do not feel they are getting the help they need. Hence
> we would like to add COMM 103 to the curriculum.
>
> We get roughly 20 new freshmen Mathematics Education majors each year.
>
> Thanks for your help.
>
> Gary
>
> Gary Stoudt
> Mathematics Department