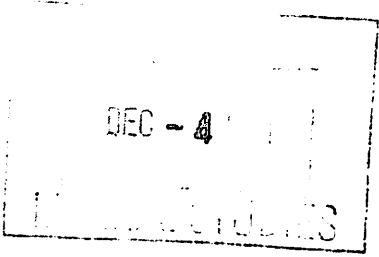


LSC Use Only  
Number: \_\_\_\_\_  
Submission Date: \_\_\_\_\_  
Action-Date: \_\_\_\_\_



UWUCC USE Only  
Number: 01-44  
Submission Date: \_\_\_\_\_  
Action-Date: UWUCC App 2/19/02  
Senate App 4/2/02

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

**I. CONTACT**

Contact Person Gerald Burick Phone 7 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\* Minor - Mathematics  
Program Name
- Program Deletion\* \_\_\_\_\_  
Program Name
- Title Change \_\_\_\_\_  
Old Program Name  
\_\_\_\_\_  
New Program Name

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

<u>George E. Mitchell</u> 10/2/01 Department Curriculum Committee	<u>Gerald Burick</u> 10/9/01 Department Chair
<u>[Signature]</u> College Curriculum Committee	<u>[Signature]</u> 11/30/01 College Chair
<u>[Signature]</u> + Director of Liberal Studies (where applicable)	<u>[Signature]</u> 12/15/01 *Provost (where applicable)

REC'D  
FEB 14 2002  
LIBERAL STUDIES

**Part II. Description of Curriculum Change**

**1. Catalog description for revised program.**

**Minor - Mathematics** **17**

**Required Courses:** **8sh**  
MATH 121 and 122 or MATH 123 and 124

**Controlled Electives:** **9sh(1)**  
Other courses for math majors; MATH 219 may be included.

(1) The following courses are excluded: MATH 100, 101, 105, 110, 115, 117, 214, 217, 417, and 418, and courses for the elementary education concentration in mathematics.

**2. Summary of Changes.**

**(a) Table comparing old and new programs.**

**Old Program:**

**New Program:**

**Minor - Mathematics**

**Minor - Mathematics**

**Required Courses:**

MATH 121 and 122 or MATH 123 and 124

**Required Courses:**

MATH 121 and 122 or MATH 123 and 124

**Controlled Electives:**

Other courses for math majors,  
MATH 216 and MATH 219  
may be included.

**Controlled Electives:**

Other courses for math majors,  
MATH 219 may be included.

(1) The following courses are excluded:

MATH 100, 101, 102, 110, 117  
214, 217, 417, 418,  
and courses for the elementary  
education concentration in  
mathematics.

(1) The following courses are excluded:

MATH 100, 101, 105, 110, 115  
117, 214, 217, 417, 418,  
and courses for the elementary  
education concentration in  
mathematics.

**(b) List of all associated course changes:**

MATH 102 has been deleted from the list of courses excluded from the minor.

MATH 105 has been added to the list of courses excluded from the minor.  
MATH 115 has been added to the list of courses excluded from the minor.  
MATH 216 has been deleted from the list of controlled electives.

**Rationale for changes:**

MATH 102 is no longer offered and has been removed from the catalog. Therefore, the reference to it in the minor should be deleted.

Pre-calculus courses such as MATH 100 and MATH 110 have previously been excluded from counting toward the minor. MATH 105 is also a pre-calculus course, but through an oversight when it was approved in 1998, we failed to revise the minor to exclude this course. We are attempting to correct that error at this time.

MATH 115 Applied Mathematics for Business was approved in spring, 2001. It replaces MATH 121 for students in the College of Business and is meant to be a one semester course including an introduction to calculus. The minor in mathematics continues to require a two-semester calculus sequence. We do not want students to count both MATH 121 and MATH 115 toward the minor since there is significant overlap in the courses. We will continue to count MATH 115 toward the minor in applied statistics.

MATH 216 was not a required course for mathematics majors when the old catalog description of the minor was written. Several years ago, MATH 216 was added to the list of courses required by all mathematics majors. Thus it is now included in the minor under the phrase "Other courses for math majors".

**Part III. Implementation.**

1. Students already in the existing program will be informed by our minor advisor that neither MATH 105 nor MATH 115 can be counted toward the minor in mathematics.
2. The proposed revision will have no effect on faculty teaching loads.
3. The proposed revision will have no effect on resources.
4. The proposed revision will have no effect on the number of students who will take these classes or the minor.

**Part IV. Course Proposals.** None.

**Part V. Letters of Support.** Attached.

October 1, 2001

Dear Department Chairperson:

The faculty of the Mathematics Department is proposing the following revisions to the list of courses excluded from counting toward the Minor in Mathematics:

(1) Add MATH 105 College Algebra to the list of excluded courses;

Pre-calculus courses such as MATH 100 and MATH 110 have previously been excluded from counting toward the minor. MATH 105 is also a pre-calculus course, but when it was approved in 1998, through an oversight the paper work was not submitted to exclude it from the Minor. We wish to correct that oversight.

(2) Add MATH 115 Applied Mathematics for Business to the list of excluded courses;

MATH 115 Applied Mathematics for Business was approved as a new course in spring, 2001. It replaces MATH 121 for students in the College of Business, and is a one-semester course which includes an introduction to calculus. The faculty of the Mathematics Department believe a two-semester calculus sequence is basic to a Minor in Mathematics, and all students should complete the 121/122 or 123/124 sequence. MATH 115 is being excluded to prevent students from counting both MATH 115 and MATH 121 toward the Minor, since there is a significant overlap in these two courses. MATH 115 will continue to count toward the Minor in Applied Statistics.

(3) Delete MATH 102 Finite Mathematics from the list of excluded courses.

MATH 102 is no longer offered and has been removed from the catalog. The reference to it in the minor should also be deleted.

Attached is a response form I have prepared for your convenience. Please mark the appropriate line on the form and return it to me in the enclosed envelope. If you have any questions, please call me at 357 2608 or send e-mail to [jburiok@iup.edu](mailto:jburiok@iup.edu).

Sincerely,

Gerald Buriok, Chairman  
Mathematics Department

## Mathematics Department Curriculum Changes

### Response Form

\_\_\_ The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

\_\_\_ The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

\_\_\_\_\_  
Department

\_\_\_\_\_  
Chairperson / Date

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.

## Mathematics Department Curriculum Changes

### Response Form

The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

Accounting  
Department

  
Chairperson / Date  
Germain P. Kline

10/3/01

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.

Mathematics Department Curriculum Changes

Response Form

The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

MANAGEMENT

Department

Prudent B.W. / 10/2/01

Chairperson / Date

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.

## Mathematics Department Curriculum Changes

### Response Form

The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

Marketing  
Department

[Signature]  
Chairperson / Date

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.



Mathematics Department Curriculum Changes

Response Form

The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

MIS/DS  
Department

Shirley B. Zwick, 10/02/01  
Chairperson | Date

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.



Mathematics Department Curriculum Changes

Response Form

The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

Economics

Department

Bill King 10/17/2001  
Chairperson / Date

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.

# Mathematics Department Curriculum Changes

## Response Form

The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

I HAVE BEEN INFORMED + THE CHANGES  
DO HAVE NO IMPACT ON OUR DEPT

CECILIA DAVITY

Department

[Signature] 4/3

Chairperson / Date

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.

## Mathematics Department Curriculum Changes

### Response Form

The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

Safety Sciences  
Department

Lon H. Ferguson 10/2/01  
Chairperson / Date

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.

Mathematics Department Curriculum Changes

Response Form

The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

Natural Science  
Department

Andrew C Browne Oct 9 2001  
Chairperson / Date

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.

*this makes logical sense to maintain quality*

Mathematics Department Curriculum Changes

Response Form

The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

Biology  
Department

W. Ba Bat      10/22/01  
Chairperson / Date

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.

Mathematics Department Curriculum Changes

Response Form

The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

Chemistry  
Department

Rueis Van Zanten Ramsey  
Chairperson | Date 10/5/01

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.



Mathematics Department Curriculum Changes

Response Form

The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

Compu Science  
Department

Mary L. Benterly / Oct. 2, 2001  
Chairperson / Date

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.

Mathematics Department Curriculum Changes

Response Form

The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

Geoscience  
Department

Darlene Richardson  
Chairperson / Date 10-8-01

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.

Mathematics Department Curriculum Changes

Response Form

The Mathematics Department has informed me of the proposed changes listed below, and I support these changes.

The Mathematics Department has informed me of the proposed changes listed below, and I do not support these changes.

Comments:

Physics  
Department

Richard D. Roberts 10/4/01  
Chairperson / Date

1. Add MATH 105 College Algebra to the list of courses excluded from the Minor in Mathematics.
2. Add MATH 115 Applied Mathematics for Business to the list of courses excluded from the Minor in Mathematics.
3. Delete MATH 102 Finite Mathematics from the list of courses excluded from the Minor in Mathematics.