

LSC Use Only No:	LSC Action-Date:	UWUCC USE Only No.	UWUCC Action-Date:	Senate Action Date:
		09-366.	App-11/17/09	App-12/1/09

Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee

Contact Person Francisco Alarcón	Email Address falarcon@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

<i>Current Course prefix, number and full title</i>	<i>Proposed course prefix, number and full title, if changing</i>
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2. Additional Course Designations: check if appropriate


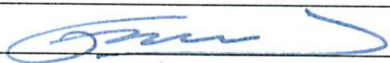

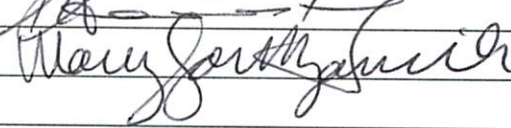
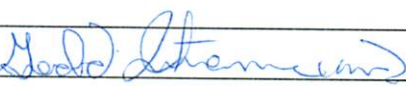
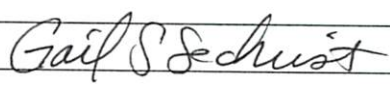
This course is also proposed as a Liberal Studies Course. Other: (e.g., Women's Studies, Pan-African)
 This course is also proposed as an Honors College Course.

3. Program Proposals

New Degree Program Program Title Change Program Revision
 New Minor Program New Track Other
 Catalog Description Change

Minor in Mathematics

<i>Current program name</i>	<i>Proposed program name, if changing</i>
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4. Approvals		Date
Department Curriculum Committee Chair(s)		4/22/09
Department Chair(s)		4/21/09
College Curriculum Committee Chair		10/16/09
College Dean		10/19/09
Director of Liberal Studies *		
Director of Honors College *		
Provost *		11/20/09
Additional signatures as appropriate: (include title)		
UWUCC Co-Chairs		11/17/09

* where applicable

Received
OCT 20 2009
Liberal Studies

1. Revised Program

Minor—Mathematics

17

Required Courses:

6-8cr

MATH 121 or MATH 125 *and* MATH 122 or MATH 126

Controlled Electives:

9-11cr (1)

Other courses for mathematics majors, MATH 219 and 250 may be included.

(1) The following courses are excluded: MATH 100, 101, 105, 110, 115, 214, 217, 417, 418 and courses for the Elementary or Middle School Education concentration in Mathematics.

2. Summary of Changes

Current Minor Program

Required Courses:

8cr

MATH 121 and 122 *or* MATH 123 *and* 124

Controlled Electives:

9 (1)

Other courses for math majors, MATH 219.

(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.

Proposed Minor Program

Required Courses:

6-8cr

MATH 121 or MATH 125 *and* MATH 122 or MATH 126

Controlled Electives:

9-11cr (1)

Other courses for mathematics majors, MATH 219 and 250 may be included.

(1) The following courses are excluded: MATH 100, 101, 105, 110, 115, 214, 217, 417, 418 and courses for the Elementary or Middle School Education concentration in Mathematics.

We are removing the sequence MATH 123/124 from the minor and replacing it with MATH 125/126. We have also modified the presentation from “MATH 121 and 122 *or* MATH 123 *and* 124” to “MATH 121 or MATH 125 *and* MATH 122 or MATH 126.” We are adding MATH 250 to the list of courses that can be included. Finally, we removed MATH 117 from the list of excluded courses because it is no longer offered.

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.

We are requiring only the first two new calculus courses in the minor to accommodate students whose program only requires these first two calculus courses.

We have also modified the presentation from “MATH 121 and 122 *or* MATH 123 **and** 124” to “MATH 121 *or* MATH 125 **and** MATH 122 *or* MATH 126” to accommodate students who start one calculus sequence but switch to the other one due to changes of major.

We are allowing the new dual listed MATH 250 course to satisfy minor requirements. We list it as courses that can be included for clarity.

Finally, we removed MATH 117 from the list of excluded courses because it is no longer offered.

III. Implementation

1. This change will take effect with the 2010 incoming freshman class. We will accept MATH 123/124 as substitutions in the minor for students who have already taken that calculus sequence.
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 Mathematics Department will evaluate this program as part of its assessment plan. We will also be monitoring student perceptions and attitudes about mathematics. All this will be accomplished with the usual course grades and current surveys.

V. Course Proposals

None.

VI. Letters of Support or Acknowledgement

Support was requested from Biology, Chemistry, Computer Science, Economics, Geoscience and Physics, since these departments have students who typically take the minor. We received responses from Biology, Computer Science, and Geoscience.

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

From: Gary Stoudt [mailto:Gary.Stoudt@iup.edu]
Sent: Wednesday 26 September 2007 11:53 AM
To: 'Carl Luciano'; 'John Woolcock'; 'William Oblitey'; 'karatjas@iup.edu'; 'Steve Hovan'; 'talwar@iup.edu'
Subject: Support for Math Minor revision

Because of the new calculus sequence, we are revising our Math Minor. Since students in your department on occasion minor in mathematics we would like a letter of support for the change.

Highlights include:

1. Keeping the minor at 17 credits

2. Requiring only the first two courses of the calculus sequence 3. Allowing the new dual listed MATH 250 (COSC 250) to count towards the minor.

You can send your support via email, and if you have any questions, please let me know.

Gary

Gary Stoudt
Mathematics Department

BIOLOGY

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

From: Carl S. Luciano [<mailto:luciano@iup.edu>]
Sent: Wednesday 26 September 2007 12:31 PM
To: Gary.Stoudt@iup.edu
Cc: luciano@iup.edu
Subject: Re: Support for Math Minor revision

Gary

I support the revision.

Dr. Carl S. Luciano
Professor and Chair
Department of Biology
Indiana University of Pennsylvania

COMPUTER SCIENCE

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

From: Bill Oblitey [<mailto:oblitey@iup.edu>]
Sent: Friday 28 September 2007 8:33 AM
To: Gary.Stoudt@iup.edu
Subject: Re: Support for Math Minor revision

Gary,
The Computer Science department supports the new minor.

Bill Oblitey

GEOSCIENCE

From: Steven Hovan [<mailto:hovan@iup.edu>]
Sent: Wednesday 26 September 2007 3:04 PM
To: Gary.Stoudt@iup.edu
Subject: support letter for minor

Gary,

The faculty of Geoscience extend our support to your proposed revisions to the Minor in Mathematics as outlined in your email. For our students, the two-course calculus sequence as part of the 17 credit requirements will sufficiently prepare them for quantitative treatment of most systems they'll encounter in the Geology field.

Sincerely,
Steve Hovan

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Dr. Steve Hovan
Chair, Geoscience Dept.
111 Walsh Hall, Indiana, PA 15705
724-357-5625 (O), 724-357-6208 (fax)