

LSC Use Only
Number: _____
Submission Date: _____
Action-Date: _____



UWUCC USE Only
Number: 97-25
Submission Date: _____
Action-Date: App. 11/11/97
Senate App. 12/2/97

CURRICULUM PROPOSAL COVER SHEET
University-Wide Undergraduate Curriculum Committee

I. CONTACT

Contact Person Gerald Buriok Phone 2608
Department Mathematics

II. PROPOSAL TYPE (Check All Appropriate Lines)

COURSE CALC I NAT/S S/BUS
Suggested 20 character title

New Course* _____
Course Number and Full Title

Course Revision MA 121 Calculus I for Business, Natural and Social Sciences
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 MA 121 Calculus I for Business, Natural and Social Sciences
Course Number and Full Title

PROGRAM: Major Minor Track

New Program* _____
Program Name

Program Revision* _____
Program Name

Program Deletion* _____
Program Name

Title Change _____
Old Program Name

New Program Name

III. Approvals (signatures and date)

[Signature] 2-11-97
Department Curriculum Committee

[Signature] 2-10-97
Department Chair

[Signature] 3-19-97
College Curriculum Committee

[Signature] 3/19/97
College Dean

+ Director of Liberal Studies (where applicable)

*Provost (where applicable)

Part II. Description of Curriculum Change.

1. New syllabus of record - attached.
2. A summary of the proposed revision:

The current prerequisite for MA 121 Calculus I for Natural, Social Science, and Business is “MA 110 Elementary Functions or equivalent high school preparation”. The Mathematics Department is requesting approval to change this prerequisite to “MA 105 College Algebra or MA 110 Elementary Functions or equivalent high school preparation.”

3. Justification/rationale for the revision:

The Mathematics Department offers three calculus sequences. These are:

MA 121/122 Calculus for Natural, Social Sciences, and Business;
MA 123/124 Calculus for Physics and Chemistry;
MA 127/128/227 Calculus.

Although these calculus courses are quite different in their level of expectation, all three have the same prerequisite, namely MA 110 Elementary Functions. MA 105 College Algebra is being introduced as a replacement for MA 110 for students who are required to complete MA 121 rather than the more demanding courses, MA 123 and MA 127. With the addition of this new course, we will be able to concentrate on the specific topics that will better prepare students for the calculus course they are required to take .

4. Old syllabus of record - attached.
5. Liberal Studies course approval form and checklist - see attached memo.

Part III. Letters of Support. (Attached)

Mathematics Department
Indiana University of Pennsylvania
Indiana, PA 15705

Course Number: MA 121

Course Title: Calculus I for Business, Natural, and Social Sciences

Credits: 4 semester hours

Prerequisites: MA 110 or equivalent high school preparation

Textbook: *Applied Calculus*, 3rd ed.
 by Dennis Berkey
 Saunders College Publishing

Revised: 4/96

Catalog Description:

Introduces non-Math major to analytic geometry, elementary functions (including logarithmic and exponential functions), central ideas of the calculus (limit, derivative, and integral), applications of derivatives to business, social, and natural sciences.

Course Outline/Sample Time Schedule:

1. Numbers, Functions, and Graphs (4 hours)
 Please note: Treat this as a **review** of precalculus/college algebra material. Don't encourage skipping precalculus by covering this material in detail.
 - 1.1 Working with Real Numbers
 - 1.2 Graphs of Equations
 - 1.3 Distance in the Plane: Equations for Circles
 - 1.4 Functions and Their Graphs
 - 1.5 Some Special Types of Functions
 - 1.6 Finding Zeroes of Functions
 - 1.7 Combinations of Functions

2. Differentiation
 - 2.1 The Slope of a Curve (2 hours)
 - 2.2 Limits of Functions (1 hour)
 - 2.3 One-Sided Limits and Continuity (1 hour)
 - 2.4 The Derivative (2 hours)
 - 2.5 Applications of the Derivative:
 Position and Velocity (1 hour)
 - 2.6 Business Applications of the Derivative (1 hour)
 - 2.7 The Product and Quotient Rules (1 hour)

2.8	The Chain Rule	(1 hour)
2.9	Limits at Infinity	(1 hour)
3.	Applications of The Derivative	
3.1	Increasing and Decreasing Functions	(1 hour)
3.2	Relative Maxima and Minima	(1 hour)
3.3	Concavity and the Second Derivative	(2 hours)
3.4	Curve Sketching I: Asymptotes	(2 hours)
3.5	Curve Sketching II	(2 hours)
3.6	Finding Absolute Extrema	(1 hour)
3.7	Applied Maximum-Minimum Problems	(1 hour)
3.8	Applications to Economics and Business	(1 hour)
3.9	Related rates and Implicit Differentiation	(2 hours)
3.10	Linear Approximations and Differentials	(1 hour)
3.11	The Mean Value Theorem	(1 hour)
4.	Exponential and Logarithmic Functions	
4.1	Exponential Functions	(1 hour)
4.2	Logarithmic Functions	(1 hour)
	Remember, these two sections should be a review of precalculus/college algebra material.	
4.3	Differentiating the Natural Logarithm Function	(2 hours)
	This is 2 hours because this section contains logarithmic differentiation.	
4.4	Differentiating the Exponential Function	(1 hour)
4.5	Exponential Growth and Decay	(2 hours)
4.6	Mathematical Modelling	(2 hours)
5.	Antiderivatives and the Definite Integral	
5.1	Antiderivatives	(1 hour)
5.2	More on Antiderivatives	(1 hour)
5.3	Finding Antiderivatives by Substitution	(1 hour)
5.4	The Area Problems and the Definite Integral	(2 hours)
5.5	The Fundamental Theorem of Calculus	(1 hour)
5.6	Finding Areas by Integration	(2 hours)
5.7	Applications of the Definite Integral to Economics and Business	(2 hours)
5.8	Other Applications of the Definite Integral	(1 hour)

This syllabus covers 50 hours of class time. This leaves 6 hours for tests and to do optional computer topics, do explorations, or to devote extra time to topics that may give your students difficulty.

Note : If you wish to use a graphing calculator in this course, you must notify the chairperson of the Service Courses Committee one semester in advance so that a note to this effect can be included on the Course Schedule for students.

Mathematics Department
Indiana University of Pennsylvania
Indiana, PA 15705

Course Number: MA 121

Course Title: Calculus I for Business, Natural, and Social Sciences

Credits: 4 semester hours

Prerequisites: MA 105 College Algebra or MA 110 or equivalent high school preparation

Textbook: *Applied Calculus*, 3rd ed.
 by Dennis Berkey
 Saunders College Publishing

Revised: 2/97

Catalog Description:

Introduces non-Math major to analytic geometry, elementary functions (including logarithmic and exponential functions), central ideas of the calculus (limit, derivative, and integral), applications of derivatives to business, social, and natural sciences.

Course Outline/Sample Time Schedule:

1. Numbers, Functions, and Graphs (4 hours)
 Please note: Treat this as a review of precalculus/college algebra material. Don't encourage skipping precalculus by covering this material in detail.
 - 1.1 Working with Real Numbers
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 - 1.7 Combinations of Functions

2. Differentiation
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 Position and Velocity (1 hour)
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2.7	The Product and Quotient Rules	(1 hour)
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3.1	Increasing and Decreasing Functions	(1 hour)
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5.8	Other Applications of the Definite Integral	(1 hour)

This syllabus covers 50 hours of class time. This leaves 6 hours for tests and to do optional computer topics, do explorations, or to devote extra time to topics that may give your students difficulty.

Note : If you wish to use a graphing calculator in this course, you must notify the chairperson of the Service Courses Committee one semester in advance so that a note to this effect can be included on the Course Schedule for students.

From: GROVE::DRCHRDSN "Darlene Richardson, Liberal Studies"
To: JBURICK
CC: DRCHRDSN
Subj: Question

Hi, Jerry. If the only change with regard to MA 121 is the change in prerequisite, a memo to the LS Committee telling us about the pre-req change and the rationale behind it is all you need to do. The LS Committee does not need to see all the paper work involved in course revision which the Undergrad Curriculum Committee requires. Darlene

MAIL>

Department of Mathematics
Indiana University of Pennsylvania
233 Stright Hall
Indiana, Pennsylvania 15705-1072

(412) 357-2608



To: Department Chairpersons

From: Gerald Buriok, Chairman
Mathematics Department *GMB*

Date: July 10, 1996

Subject: Support for Curriculum Change

This memo is being sent to inform you of our intention and to request your support for adding an alternative to MA 110 Elementary Functions as a prerequisite for MA 121 Calculus I for Business, Natural, and Social Sciences.

The Mathematics Department is preparing a new course, MA 105 College Algebra, for submission to the University-wide Undergraduate Curriculum Committee (UWUCC). We are also proposing a change in the prerequisite for MA 121 from "MA 110 or equivalent high school preparation" to "MA 105 or MA 110 or equivalent high school preparation." As you know, the UWUCC requires statements of support from departments affected by curricular changes and I am asking you to sign and return the enclosed form to indicate your support for this change in the prerequisite for MA 121.

The rationale for changing the prerequisite for MA 121 is as follows. The Mathematics Department currently offers three calculus sequences. MA 121/122 Calculus for Business, Natural, and Social Sciences, MA 123/124 Calculus for Physics and Chemistry, and MA 127/128/227 Calculus (for math majors). Although these calculus sequences are quite different in their level of expectations, all three now have the same prerequisite, namely MA 110 Elementary Functions. MA 105 is being introduced as an alternative to MA 110 for students who are required to complete MA 121 rather than the more demanding courses MA 123 and MA 127. With the addition of this new course, we will be able to concentrate on the specific topics that will better prepare students for the calculus course they are required to take.

I have attached a copy of the syllabus for the proposed MA 105 course. Please contact me if you have any questions. Otherwise, I would appreciate your returning the enclosed form by August 1, 1996.

To: Gerald Buriok, Department Chairpman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

I understand that the Mathematics Department is in the process of seeking approval of a new course, MA 105 College Algebra. I have been informed by the Mathematics Department of their proposal to change the prerequisite for MA 121 Calculus I for Business, Natural, and Social Sciences from "MA 110 or equivalent high school preparation" to "MA 105 or MA 110 or equivalent high school preparation". I have no objection to this change in prerequisite.

Name _____, Department Chairperson

Department _____

Date _____

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

To: Gerald Buriok, Department Chairman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

I understand that the Mathematics Department is in the process of seeking approval of a new course, MA 105 College Algebra. I have been informed by the Mathematics Department of their proposal to change the prerequisite for MA 121 Calculus I for Business, Natural, and Social Sciences from "MA 110 or equivalent high school preparation" to "MA 105 or MA 110 or equivalent high school preparation". I have no objection to this change in prerequisite.

Name Donald A. Walker, Department Chairperson

Department Economics

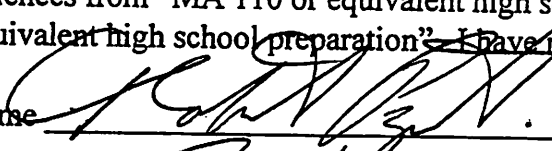
Date 8/7/96

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

To: Gerald Buriok, Department Chairpman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

I understand that the Mathematics Department is in the process of seeking approval of a new course, MA 105 College Algebra. I have been informed by the Mathematics Department of their proposal to change the prerequisite for MA 121 Calculus I for Business, Natural, and Social Sciences from "MA 110 or equivalent high school preparation" to "MA 105 or MA 110 or equivalent high school preparation". I have no objection to this change in prerequisite.

Name , Department Chairperson

Department Biology

Date 8/2/96

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

To: Gerald Buriok, Department Chairman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

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Name J. W. Fall, Department Chairperson

Department Geoscience

Date 8-1-96

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

To: Gerald Buriok, Department Chairpman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

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Name James Bond, Department Chairperson

Department Health & Physical Educ.

Date 7/29/96

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

To: Gerald Buriok, Department Chairman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

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Name Susan Fulea, Department Chairperson

Department Geography & Regional Planning

Date 7-23-96

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

To: Gerald Buriok, Department Chairpman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

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Name Richard D. Roberts, Department Chairperson

Department Physics

Date July 16, 1996

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

To: Gerald Buriok, Department Chairpman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

I understand that the Mathematics Department is in the process of seeking approval of a new course, MA 105 College Algebra. I have been informed by the Mathematics Department of their proposal to change the prerequisite for MA 121 Calculus I for Business, Natural, and Social Sciences from "MA 110 or equivalent high school preparation" to "MA 105 or MA 110 or equivalent high school preparation". I have no objection to this change in prerequisite.

Name Joanne B. Steiner, Department Chairperson

Department Food & Nutrition

Date 7/18/96

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

To: Gerald Buriok, Department Chairpman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

I understand that the Mathematics Department is in the process of seeking approval of a new course, MA 105 College Algebra. I have been informed by the Mathematics Department of their proposal to change the prerequisite for MA 121 Calculus I for Business, Natural, and Social Sciences from "MA 110 or equivalent high school preparation" to "MA 105 or MA 110 or equivalent high school preparation". I have no objection to this change in prerequisite.

Name Robert L. Whitmer, Department Chairperson

Department French

Date 7/19/96

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

To: Gerald Buriok, Department Chairman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

I understand that the Mathematics Department is in the process of seeking approval of a new course, MA 105 College Algebra. I have been informed by the Mathematics Department of their proposal to change the prerequisite for MA 121 Calculus I for Business, Natural, and Social Sciences from "MA 110 or equivalent high school preparation" to "MA 105 or MA 110 or equivalent high school preparation". I have no objection to this change in prerequisite.

Name DR. W. W. OBLITEY, Department Chairperson

Department COMPUTER SCIENCE

Date 7/16/96

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

To: Gerald Buriok, Department Chairman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

I understand that the Mathematics Department is in the process of seeking approval of a new course, MA 105 College Algebra. I have been informed by the Mathematics Department of their proposal to change the prerequisite for MA 121 Calculus I for Business, Natural, and Social Sciences from "MA 110 or equivalent high school preparation" to "MA 105 or MA 110 or equivalent high school preparation". I have no objection to this change in prerequisite.

Name Jodell Kuznesoli, Department Chairperson

Department Nursing and Allied Health Professions

Date 7-16-96

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

To: Gerald Buriok, Department Chairpman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

I understand that the Mathematics Department is in the process of seeking approval of a new course, MA 105 College Algebra. I have been informed by the Mathematics Department of their proposal to change the prerequisite for MA 121 Calculus I for Business, Natural, and Social Sciences from "MA 110 or equivalent high school preparation" to "MA 105 or MA 110 or equivalent high school preparation". I have no objection to this change in prerequisite.

Name Josem Cananaya, Department Chairperson

Department Spanish & Classical Langs.

Date 7/17/96

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

To: Gerald Buriok, Department Chairman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

I understand that the Mathematics Department is in the process of seeking approval of a new course, MA 105 College Algebra. I have been informed by the Mathematics Department of their proposal to change the prerequisite for MA 121 Calculus I for Business, Natural, and Social Sciences from "MA 110 or equivalent high school preparation" to "MA 105 or MA 110 or equivalent high school preparation". I have no objection to this change in prerequisite.

Name Dothen Varughese, Department Chairperson

Department Chemistry

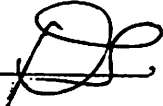
Date 7/18/96

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

To: Gerald Buriok, Department Chairman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

I understand that the Mathematics Department is in the process of seeking approval of a new course, MA 105 College Algebra. I have been informed by the Mathematics Department of their proposal to change the prerequisite for MA 121 Calculus I for Business, Natural, and Social Sciences from "MA 110 or equivalent high school preparation" to "MA 105 or MA 110 or equivalent high school preparation". I have no objection to this change in prerequisite.

Name JONNA STREIFHAU  Department Chairperson

Department HDES

Date 7.18.96

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]

Date: August 26, 1996

Subject: Proposed Changes in MA121

To: Dr. Jerry Buriok, Chairman

From: Lon Ferguson, Chairman *LF*
Safety Sciences Curriculum Committee

Sorry for the delay in responding to your previous request for feedback on the proposed changes to MA121. Members of the Safety Sciences Curriculum Committee as well as Dr. Soule, Chairman of the Safety Sciences Department, have reviewed the proposed changes and, consequently, support the changes for MA121.

Buriok;Ferguson3

To: Gerald Buriok, Department Chairman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

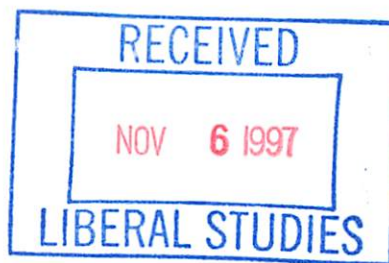
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Name, Allan T. Audens, Department Chairperson

Department Natural Science Program

Date 10/15/97

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]



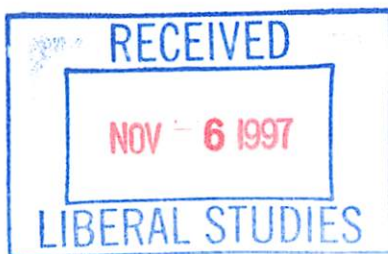
To: Gerald Buriok, Department Chairpman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

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Name Jacob Volke, Department Chairperson
Department German
Date 10/20/97

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]



25
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To: Gerald Buriok, Department Chairman
Mathematics Department
233 Stright Hall

Subject: Prerequisite for MA 121

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Name ARTHUR H. MARTEL, Department Chairperson
Arthur H. Martel
Department DIRECTOR OF PRE-LAW PROGRAM
Date 10-21-97

[Please return this form to the Mathematics Department, 233 Stright Hall, by August 1.]



To: Dr. Joyce Garrett, Associate Dean
College of Education

From: Gerald Buriok, Chairman
Mathematics Department

Date: November 3, 1997

Subject: Making You Aware

A Screening Subcommittee of the University-wide Undergraduate Curriculum Committee has informed me they will not forward a course revision for MA 121 Calculus I for Natural, Social Science, and Business to the full committee until I have received a memo from the Dean of the College of Education indicating I made you aware of the change. I spoke with Dr. Butzow on Saturday morning at the Admissions Office "Marketplace" in the Field House, and he told me to send this request to you since he would be on vacation for two weeks.

The course revision in question involves changing the prerequisite for MA 121 from "MA 110 Elementary Functions or equivalent high school preparation" to "MA 105 College Algebra or MA 110 Elementary Functions or equivalent high school preparation." Attached to this memo is new course proposal for MA 105. Also attached is a course revision proposal for MA 121. Included in both proposals are letters from all departments having a program where MA 121 is required.

I am requesting that you send me either an e-mail message or a memo indicating that I have made you aware of the proposal to change the prerequisite for MA 121. Please contact me if you have any questions about the MA 121 or MA 105 proposals. My understanding is that you do not have to approve the proposals nor sign off on them, but rather that the Screening Committee simply wants to know that you are aware of the proposals.

cc: Chairperson, Screening Committee ✓
Dr. John Butzow, Dean



#1 4-NOV-1997 16:05:03.10

NEWMAIL

From: GROVE::JGARRETT
To: JBURIOK
CC: CCULLUM, JWBUTZOW
Subj: Curriculum Revision for MA 121 Calculus I..

Jerry, thanks for sending information about the Mathematics Department revision of MA 121. I see no reason why the proposal should not go forward as presented. It is my understanding that departments with education programs that require MA 121 have had an opportunity to review the proposal and have raised no questions regarding the change.

If you need anything addition from the COE, please let us know...jlg

Joyce Lynn Garrett, Ph.D.
Associate Dean for Administration
and Academic Affairs

412.357.2483
412.357.5595 (fax)
JGARRETT@Grove.IUP.Edu

Press RETURN for more...

MAIL>

#1 4-NOV-1997 16:05:03.10

NEWMAIL

College of Education
Indiana University of Pennsylvania
Indiana, PA 15705-1087

MAIL>



#19 30-OCT-1997 14:49:07.48 NEWMAIL
From: GROVE::DRCHRDSN "Darlene Richardson, Liberal Studies"
To: CJSUTTON, JBURIOK, RMEDDY, DEANNA, HERBHUNT, JIMMILL
CC: DRCHRDSN
Subj: cancellation of LS meeting for today, Oct. 30

Hello, folks. I am sorry to inform you that the LS Committee meeting for today, 10-30, was cancelled due to lack of quorum. I am placing today's proposals on next week's agenda (11-6). I know that next Tuesday is Senate and the Univ. Wide Curriculum Committee will not meet next Tuesday. I also just learned that the NS&M college Curriuc. Comm. will meet Nov. 13. I believe that your proposals will be acceptable to the LS Committee and will let you know as soon as possible.

I know the agenda for the Univ wide Curric Comm is due next Thursday by noon for the meeting on Tuesday 11-11 and I will ask special permission from the chair of that committee to place the LS report on the agenda Friday morning.

Again, sorry for the delay. Darlene

Dr. Cullum: FYI

