

LSC Use Only

RECEIVED

LIWIG

Department Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Faculty Mathematics

Part II. Description of Curriculum Change.

1. New syllabus of record - attached.

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.

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 Barber

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

- 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 (1 hour)

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: 2/07

**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.

- 2.7 The Product and Quotient Rules
- 2.8 The Chain Rule

(1 hour)

### 3. Applications of The Derivative

- 3.1 Increasing and Decreasing Functions

From: GROVE::DRCHRDSN  
To: JBURICK

"Darlene Richardson, Liberal Studies"

Subj: Question

Hi, Jerry. If the only change with regard to MA 121 is the change in prerequisite, a memo to the IS Committee talking up about it.

Department of Mathematics  
Indiana University of Pennsylvania  
233 Stright Hall

(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



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

To: Gerald Burick, Department Chairman

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.

 Gerald A. Burick

Department

Economics

Date

8/7/96

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

Subject: Department Chair

Enclosed for your review

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

Subject: Prerequisite for MA 105

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 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

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

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

To: Gerald Buriok, Department Chairperson  
Mathematics Department

233 Stright Hall

Subject: Prerequisite for MA 121

Mathematics Department  
233 Stright Hall

Subject: Prerequisite for MA 121

I understand that the Mathematics Department is in the process of



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" to "MA 105 or equivalent".

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

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

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

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 Robert Vaughan, Department Chairperson

Department Chemistry

[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 course" to "MA 105 or equivalent high school course".



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 [redacted]

Department  
233 Stright Hall

Subject: Prerequisite for MA 121

I understand that the Mathematics Department is in the process of seeking approval for

*J. Gardner*

Department Chairperson

Name, [redacted]







# THE COLLEGE OF LIBERAL ARTS UNIVERSITY OF MISSISSIPPI

MA 105: PREREQUISITE FOR MA 121

UNIVERSITY OF MISSISSIPPI

The Mathematics Department is in the process of seeking approval for

MA 105: Mathematics, Natural, and Social

Sciences from MA 110

or equivalent high school preparation to MA 105 or MA 110

MA 105

105

105

105

105

105

105

105

105

105

105

105

105



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

From: Gerald Burgin, Chairman

Dear Dr. Garret:

I am writing to you regarding the proposed changes to the curriculum for the Bachelor of Science in Education (BSE) program. The proposed changes are outlined in the attached document and are intended to ensure that the program remains current and relevant in the field of education.

The proposed changes include the addition of new courses and the modification of existing courses. These changes are necessary to ensure that the program meets the needs of the profession and the students. The new courses will provide students with the knowledge and skills they need to be successful in the field of education. The modifications to existing courses will ensure that the program remains current and relevant in the field of education.

I am confident that these changes will result in a program that is of the highest quality and that will prepare students for the challenges of the profession. I would appreciate your feedback on these proposed changes and would be happy to discuss them with you at any time.

Thank you for your attention to this matter. I look forward to your response.

Sincerely,  
Gerald Burgin, Chairman

Enclosure

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100



CC: CCULLUM, JWB

Subject: [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

#19 30-OCT-1997 14:49:07.48

NEWMAIL

From: GROVE::DRCHRDSN "Darlene Richardson"

