

CURRICULUM PROPOSAL FORM 1999-2000

**NON-GENERAL EDUCATION PROCESS A**

**\*DEADLINES:** Deadline dates for 1999/2000 submissions: Regular proposals: October 22, 1999 to be implemented in Fall 2000; Short-Term proposals: December 10, 1999 to be implemented in Fall, 2000; Regular proposals February 18, 2000 to be implemented in Spring, 2001; March 24, 2000 for short-term courses to be implemented in Spring 2001.

**PROPOSAL TITLE:** Minor Curriculum Change: Addition & Deletion of Courses in Mathematics Specialization within the M.A. in Higher Education

**SPONSOR(S):** Thomas C. Monahan and Marcus Wright  
Educational Leadership Mathematics

**DEPARTMENT:** Educational Leadership and Mathematics

**COLLEGE:** Education & Liberal Arts & Science

**IF LAS CHECK ONE:**  History/Humanities  Math/Sciences  Social/Behavioral Sciences

**Check one:**  Undergraduate  Graduate

THE ATTACHED *NON-GEN-ED* PROPOSAL IS BEST DESCRIBED BY THE ITEM(S) CHECKED.

New non-gen-ed course

Short-term non-gen-ed course

Minor curricular changes (fewer than three) to:

existing non-gen-ed course

non-gen-ed degree requirements

major

minor, specialization, concentration, track, certificate program

**DEPARTMENT**  
(Signature indicates approval) *See attached for signature*

---

Dept. Curriculum Chair / Date

---

Dept. Chairperson / Date

**ACADEMIC DEAN**

Approved  Not Approved  Comments:

Dean's Signature/Date *June B...* 3/8/00

**COLLEGE CURRICULUM COMMITTEE**

Date of open hearing (if necessary) \_\_\_\_\_ Approved  Not Approved \_\_\_\_\_

Comments:

Signature of College Chair/Date: Gordy - 3/20

**UNIVERSITY CURRICULUM COMMITTEE**

Date Received/Processed 7/16/00

Comments: Re-submitted proposal to include additional proposed course work.

Curriculum Chair Signature [Signature] 5/16/00 Date Announced At Senate \_\_\_\_\_

**EXECUTIVE VICE PRESIDENT/PROVOST**

Approved  Not Approved \_\_\_\_\_ If no, reasons are as follows:

Student Credit Hours \_\_\_\_\_ Faculty Load Hours \_\_\_\_\_ Equalized Credit Hours \_\_\_\_\_

Official Copy & Approval Sheet Filed (Date): \_\_\_\_\_ Executive VP/Provost Signature/Date [Signature] 5/22/00

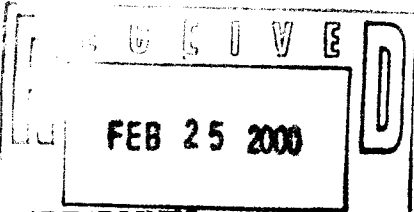
**REGISTRAR**

Date Approved Course Description Received 5/24/00 Hegis Taxonomy & Course Number Assigned None

Registrar Signature/Date Robert A. Kubat 5/24/00

**NOTIFICATION FORWARD**

\_\_\_\_ Senate Curriculum Committee Chairperson      \_\_\_\_ Academic Dean(s)  
\_\_\_\_ Department Chairpersons      \_\_\_\_ Registrar      \_\_\_\_ Sponsor(s)



PROPOSAL NUMBER: 99-

CURRICULUM PROPOSAL FORM

SCC#00-310

DEADLINE: ROMAN UNIVERSITY SENATE

REGULAR COURSE PROPOSALS: OCTOBER 23, 1998 FOR FALL, 1999 AND FEBRUARY 19, 1999 FOR SPRING, 2000
SHORT-TERM COURSE PROPOSALS: DECEMBER 11, 1998 FOR FALL, 1999 AND MARCH 26, 1998 FOR SPRING 2000

PROPOSAL TITLE: MINOR CURRICULUM CHANGE: ADDITION & DELETION OF COURSES IN MATHEMATICS SPECIALIZATION WITHIN THE M.A. IN HIGHER EDUCATION PROGRAM
SPONSOR/S: THOMAS C. MONTMAYRE AND MARCO WRIGHT
DEPARTMENT: EDUCATIONAL LEADERSHIP AND MATHEMATICS

CHECK ALL THAT APPLY: UNDERGRADUATE GRADUATE
COLLEGE: EDUCATION AND LAS
If LAS: History/Humanities Math/Sciences Social/Behavioral Sciences

TYPE OF PROPOSAL (Check ALL that Apply)
General Education New Course (NOT Gen. Ed.)
New Course in Bank Name Change (Dept., School, Major)
Existing course, Add To Bank Changes in Degree Requirements
Multicultural/Global Designation Changes Involve Gen. Ed. requirements
Writing Intensive Designation
New Minor/Concentration/Specialization Minor Changes to Existing Courses
New Major/Degree Program Course is NOT General Education
Short Term Course Proposal Course IS General Education

DEPARTMENT (SIGNATURE INDICATES APPROVAL)
DEPT. CURRICULUM CHAIR / DATE DEPT. CHAIRPERSON / DATE

COLLEGE CURRICULUM COMMITTEE
DATE OF OPEN HEARING (if necessary)
APPROVED NOT APPROVED
COMMENTS:
SIGNATURE DATE

ACADEMIC DEAN (& GRADUATE DEAN, for New Graduate Programs Only)
APPROVED NOT APPROVED
COMMENTS:
SIGNATURE (Academic Dean) DATE
SIGNATURE (Graduate Dean) DATE

**UNIVERSITY CURRICULUM COMMITTEE**

DATE OF OPEN HEARING (if necessary) \_\_\_\_\_

\_\_\_ APPROVED

\_\_\_ NOT APPROVED

COMMENTS:

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
DATE

**SENATE**

Date announced at Senate \_\_\_\_\_

Voted upon at Senate:

Approved

Not Approved

Date:

**EXECUTIVE VICE PRESIDENT/PROVOST**

\_\_\_ APPROVED

\_\_\_ NOT APPROVED If no, reasons are as follows:

STUDENT CREDIT HOURS \_\_\_\_\_ FACULTY LOAD HOURS \_\_\_\_\_ EQUALIZED CREDIT HOURS \_\_\_\_\_

OFFICIAL COPY & APPROVAL SHEET FILED (DATE): \_\_\_\_\_

DATE/SIGNATURE EXECUTIVE VICE PRESIDENT/PROVOST

**REGISTRAR**

DATE APPROVED COURSE DESCRIPTION RECEIVED \_\_\_\_\_

HEGIS TAXONOMY & COURSE NUMBER ASSIGNED \_\_\_\_\_

DATE/SIGNATURE OF REGISTRAR

**NOTIFICATION FORWARD:**

\_\_\_ SENATE CURRICULUM COMMITTEE CHAIRPERSON

\_\_\_ DEPARTMENT CHAIRPERSONS

\_\_\_ ACADEMIC DEAN(S)

\_\_\_ REGISTRAR

\_\_\_ SPONSOR(S)

**Minor Curriculum Change  
M.A. in Higher Education: Instructional Track  
Specialization in Mathematics**

**1. DETAILS**

**(a) Change requested:**

This minor curriculum change involves adding and deleting a small number of courses within the elective bank of the specialization in mathematics in order to provide greater flexibility for student. Specifically, the proposed changes are limited to the addition of five courses:

*addition of one new required course*  
*Linear Algebra*  
*add 4 new elective courses*  
*and drop 2 delete*

**ADD the following courses:**

Linear Algebra (1701.502).....	3 s.h
Complex Analysis II (1701.513).....	3 s.h.
Topics—Applied Mathematics (1701.520).....	3 s.h.
Non-Linear Differential Equations (1701.521).....	3 s.h.
Numerical Analysis (1701.529).....	3 s.h.

**DELETE the following courses:**

Projective Geometry (1701.531).....	3 s.h.
Independent Study (1701.550).....	2 s.h.

**(b) Sponsors:** Thomas C. Monahan, Educational Leadership Department  
Marcus Wright, Mathematics Department

**2. RATIONALE**

**(a) Need for Change**

Within the present curriculum, students have some flexibility. By deleting courses that are obsolete and by adding additional courses, students will have a greater degree of flexibility in course selection.

**(b) Statement of Curricular Effect**

Aside from the increased flexibility described above, the only other change is to increase the number of required courses from five to six. This change notwithstanding, the essence of the program is not altered in a significant way. See Appendix A for a complete description of the present and proposed curricula.

**3. REPORT OF CONSULTATIONS**

The curriculum committees, faculty, and chairpersons of the Educational Leadership Department and Mathematics Department have approved this jointly-sponsored proposal.



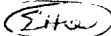




*Educational Leadership*

February 22, 2000

TO: The College of Education Curriculum Committee

FROM: Edward H. White, Jr., Professor and Chair 

RE: Proposed Curricular Changes

This is to advise you that that, at our department meeting on February 22, 2000, the Educational Leadership approved the following proposals for curricular changes:


- (1) Proposed minor curriculum change: Change prerequisites for selected courses in the administrative track within the M.A. in Higher Education
- (2) Proposed minor curriculum change: Additions and deletions of selected courses within the elective bank of the specialization in mathematics in the instructional track within the M.A. in Higher Education
- (3) Proposed major curriculum change: Updating the curriculum (including the development of new courses) of the specialization in computer science within the M.A. in Higher Education
- (4) Proposed minor curriculum change: Change in the credit designation for the course entitled *Dissertation Research in Educational Leadership (0824.795)* **from** 12 s.h. **to** variable credit 1-12 s.h. and an accompanying change in the catalog course description.
- (5) Proposed new course: *Leading the Learning Centered School (3.s.h.)*

These are all important changes that will enhance the quality of the program, and I urge the College Curriculum committee to approve them. Should you require additional Information, please contact me.



*Mathematics Department*

TO: Senate Curriculum Committee

FROM: Ronald J. Czocho, Chairman, Mathematics Department 

RE: Minor Changes to M.A. in Higher Education: Instructional Track

DATE: February 22, 2000

I have reviewed the proposed changes in the M.A. in Higher Education: Instructional Track program with a Specialization in Mathematics and I can speak for the department that we support these changes.

With the advent of our M.A. in Mathematics more graduate courses have become available and it is only natural that the students in this program should be able to take advantage of them. The additional elective courses will provide more opportunity for students to focus their study in a particular area of mathematics.

The additional core requirement of Linear Algebra is appropriate since an undergraduate course on this topic is often taught in the community colleges. Students who take this graduate course gain a deeper understanding of this important subject and its relative position with respect to other algebraic topics.



*Educational Leadership*

May 4, 2000

TO: Martin Itzkowitz, Chair  
Senate Curriculum Committee

FROM: Thomas C. Monahan, Educational Leadership Department

RE: Revised Proposal

As per your instructions of April 25, 2000, I am pleased to submit this revised proposal for the minor curriculum change for the M.A. in Higher Education, specialization in Mathematics. I have made the corrections that you have requested and have consulted with my colleague, Marcus Wright, in the Mathematics Department. Please note that added material has been indicated by underlining and deleted material has been bracketed and redlined. We trust that these corrections will permit the final approval by the Senate curriculum committee of this proposal. Should you require additional information, please contact me.

cc: Marcus Wright

**Minor Curriculum Change**  
**M.A. in Higher Education: Instructional Track**  
**Specialization in Mathematics**

(Revised May 4, 2000; deleted phrases bracketed [---], added phrases underlined \_\_\_\_\_)

**1. DETAILS**

**(a) Change requested:**

This minor curriculum change involves (1) the addition of one new required course, Linear Algebra (1701.502), (2) the addition of four new elective courses, and (3) the deletion of two courses to ~~[adding and deleting a small number of courses within the elective bank of]~~ the specialization in mathematics in order to provide greater flexibility for student. Specifically, the proposed changes are limited to the addition of five courses:

**ADD the following courses:**

Linear Algebra (1701.502).....	3 s.h
Complex Analysis II (1701.513).....	3 s.h.
Topics—Applied Mathematics (1701.520).....	3 s.h.
Non-Linear Differential Equations (1701.521).....	3 s.h.
Numerical Analysis (1701.529).....	3 s.h.

**DELETE the following courses:**

Projective Geometry (1701.531).....	3 s.h.
Independent Study (1701.550).....	2 s.h.

**(b) Sponsors:** Thomas C. Monahan, Educational Leadership Department  
Marcus Wright, Mathematics Department

**2. RATIONALE**

**(a) Need for Change**

Within the present curriculum, students have some flexibility. By deleting courses that are obsolete and by adding additional courses, students will have a greater degree of flexibility in course selection.

**(b) Statement of Curricular Effect**

Aside from the increased flexibility described above, the only ~~[other]~~ changes are (1) to add a new required course and (2) to increase the number of required courses from five to six. This change notwithstanding, the essence of the program is not altered in a significant way. See Appendix A for a complete description of the present and proposed curricula.

**3. REPORT OF CONSULTATIONS**

The curriculum committees, faculty, and chairpersons of the Educational Leadership Department and Mathematics Department have approved this jointly-sponsored proposal.

**APPENDIX A**  
**Difference in the Curriculum**

***From***

*Specialization in Mathematics*                      *Total*.....                      *24 s.h.*

Required Courses

Foundations of Mathematics (1701.500).....	3 s.h.	
History of Mathematics (1701.522).....	3 s.h.	
Topics in Discrete Mathematics (1703.550).....	3 s.h.	
Problems in Mathematics Education I & II (0833.600/601).....	6 s.h.	
Total .....		15 s.h.

Elective Courses     (*Select three*)

Number Theory (1701.503).....	3 s.h.	
Introduction to Mathematical Logic (1701.504).....	3 s.h.	
Probability and Mathematical Statistics (1701.505).....	3 s.h.	
Advanced Calculus I (1701.510).....	3 s.h.	
Advanced Calculus II (1701.511).....	3 s.h.	
Complex Analysis I (1701.513).....	3 s.h.	
Modern Geometry (1701.525).....	3 s.h.	
Point Set Topology (1701.526).....	3 s.h.	
Abstract Algebra I (1701.524).....	3 s.h.	
Abstract Algebra II (1701.527).....	3 s.h.	
Projective Geometry (1701.531).....	3 s.h.	
Independent Study (1701.550).....	2 s.h.	
Total.....		9 s.h.





*Rowan University Senate*

Date: April 25, 2000

To: Dr. T. Monahan, Educational Leadership Dept.  
Dr. M. Wright, Mathematics Dept.

From: Dr. Martin Itzkowitz, Chr.  
Senate Curriculum Committee

RE: SCC#00-310 Minor Curriculum Change: Addition and Deletion of Courses in  
Mathematics Specialization within the M.A. in Higher Education

Please resubmit revised proposal to include addition of new required courses up  
front.

If you have any questions, please feel free to contact me at 3418  
([Itzkowitzm@Rowan.Edu](mailto:Itzkowitzm@Rowan.Edu)).

MI/r

Encl: Original Proposal SCC#00-310