

PROCESS A NON-GENERAL EDUCATION ~ CURRICULUM PROPOSAL

SCC #02-03- 910 P

Deadlines:

Regular proposals: October 18, 2002 to be implemented Fall 2003; Short-Term proposals: December 6, 2002 to be implemented Fall 2003
Regular proposals: February 14, 2003 to be implemented Spring 2004; March 21, 2003 short-term courses to be implemented Spring 2004

PROPOSAL TITLE: Change in the prerequisites for Mathematics Seminar (1701.499)

Sponsor(s): MING-SUN LI E-Mail: sun@rowan.edu Ext: 3889
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E-Mail: _____ Ext: _____

RECEIVED BY:
NOV 28 2002
COLLEGE OF LIBERAL ARTS & SCIENCES

DEPARTMENT: Math

COLLEGE: LAS

If Liberal Arts & Sciences CHECK : History/Humanities Math/Sciences Social/Behavioral Sciences

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)
- Existing non-gen-ed course
- Non-gen-ed degree requirements
- Major
- Minor, specialization, concentration, track, certificate program

The following signatures REPRESENT APPROVAL

Department Chair: Ronald J. Goehry Date: 11/20/02
 Department Curriculum Chair: Abern abay Date: 11/20/02
 Academic Dean: Joy Nag Date: 11/25/02
 College Curriculum Chair: [Signature] Date: 3/27/03

College Curriculum Committee OPEN HEARING Date: 3/27/2003 Approved Not Approved

UNIVERSITY CURRICULUM COMMITTEE

Senate Curriculum Chair Signature: [Signature] Date: Senate Announcement/Note: 6/10/2003

Comments: _____
EXECUTIVE VICE PRESIDENT/PROVOST Signature: [Signature] Date: 1/29/03

Approved ~ Not Approved due to the following: Student Cr Hrs Faculty Load Hrs Equalized Cr Hrs

REGISTRAR

Date: _____ Course Description Received & Approved ~ Hegis Taxonomy & Course #: _____

EC [Signature] 7/30/07

NOTIFICATION FORWARD

____ Academic Dean _____ Department Chair _____ Registrar _____ Sponsor(s)

OFFICE OF THE PROVOST
JUL 28 2003
SCC Chair
ROWAN UNIVERSITY

F-2004

Minor Change in the Prerequisites for Mathematics Seminar (1701.499)

1. Details.

a. Changes Requested:

i. Change in prerequisites from:

1701.499 Mathematics Seminar

Prerequisites: Senior standing and successful completion of two of the following courses: College Geometry, Modern Algebra, Ordinary Differential Equations, Introduction to Real Analysis; or permission of the instructor.

To:

1701.499 Mathematics Seminar

Prerequisites: Senior standing and successful completion of Modern Algebra I (1701.340), Ordinary Differential Equations (1701.231), Introduction to Real Analysis (1701.330) and one of the following two courses: College Geometry (1701.310) or Probability/Statistics I (1702.360).

ii. Corresponding change in catalog description from:

1701.499 Mathematics Seminar

(Prerequisites: Senior standing and successful completion of two of the following courses: College Geometry, Modern Algebra, Ordinary Differential Equations, Introduction to Real Analysis; or permission of the instructor.)

This course is designed to integrate students' knowledge of mathematics and to further developing their problem solving abilities. The course content includes problem solving techniques, a review of the literature of mathematics, solving problems drawn from a variety of current sources, and study of techniques of proof and issues in the philosophy of mathematics and its foundations. Additionally, each student is required to write and present orally a research report on a mathematical topic.

Prerequisite Comments:

Senior standing and permission of the instructor, or the Department chairperson if the seminar is unstaffed at the time of enrollment. Normally, Such permission will be based on the successful completion of two of the following: College Geometry, Modern (Abstract) Algebra, Differential Equations, Real Analysis I, Numerical Analysis, Application of Mathematics or Complex Analysis.

To:

1701.499 Mathematics Seminar

(Prerequisites: Senior standing and successful completion of Modern Algebra I (1701.340), Ordinary Differential Equations (1701.231), Introduction to Real Analysis (1701.330) and one of the following two courses: College Geometry (1701.310) or Probability/Statistics I (1702.360).)

No change → This course is designed to integrate students' knowledge of mathematics and to further developing their problem solving abilities. The course content includes problem solving techniques, a review of the literature of mathematics, solving problems drawn from a variety of current sources, and study of techniques of proof and issues in the philosophy of mathematics and its foundations. Additionally, each student is required to write and present orally a research report on a mathematical topic.

Prerequisite Comments:

Senior standing and permission of the instructor, or the Department chairperson if the seminar is unstaffed at the time of enrollment. Normally, Such permission will be based on the successful completion of Modern (Abstract) Algebra I (1701.340), Ordinary Differential Equations (1701.231), Introduction to Real Analysis I (1701.330), and one of the following: College Geometry (1701.310) or Probability/Statistics I (1702.360).

b. Sponsor: Dr. Ming-Sun Li

2. Rationale:

Senior Mathematics Seminar is the cap-stone course of the Department of Mathematics. It is designed to integrate students' mathematical knowledge so that they are able to acquire a better understanding of mathematics as a whole, to see relationships and interactions among various branches of mathematics, and to appreciate current or useful applications of mathematics to other areas of science. Students will benefit more from this course when they have a sufficiently broad math background, which includes the core courses: Introduction to real Analysis and Modern Algebra I, and their applications to geometry, physics and probability and statistics.

3. Consultation:

Consultation is not needed. This is a course for math majors. No other departments will be affected by the proposed changes.

4. Time of Implementation:

Fall, 2004