

PROPOSAL SCC #99/00- 736 (D)

CURRICULUM PROPOSAL FORM 1999-2000

NON-GENERAL EDUCATION PROCESS A

ROWAN UNIVERSITY SENATE

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.

1703.305

PROPOSAL TITLE: Minor Curricular Change for Patterns in Nature I: Visual Geometry

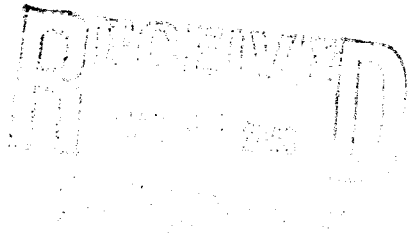
SPONSOR(S): Janet H. Caldwell and Ronald J. Czochor

DEPARTMENT: Mathematics

COLLEGE: Liberal Arts and Sciences

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)

G. Howard / 2/28/00
Dept. Curriculum Chair / Date

Ronald J. Czochor 2/28/00
Dept. Chairperson / Date

ACADEMIC DEAN

Approved Not Approved Comments:

Dean's Signature/Date Alex Hanger 3 3 00

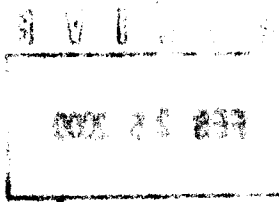
COLLEGE CURRICULUM COMMITTEE

Date of open hearing (if necessary) 5/2/00 Approved Not Approved

Comments:

Needs catalog description

Signature of College Chair/Date: [Signature] 5/2/00



UNIVERSITY CURRICULUM COMMITTEE

Date Received/Processed 5/25/00

Comments:

Curriculum Chair Signature [Signature]

Date Announced At Senate 5-30-00

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] 6/1/00

REGISTRAR

Date Approved Course Description Received 4/5/00 Hegis Taxonomy & Course Number Assigned _____

Registrar Signature/Date Robert A. Kubat 4/5/00

NOTIFICATION FORWARD

Senate Curriculum Committee Chairperson

Academic Dean(s)

Department Chairpersons

Registrar

TM 6/8/00 Sponsor(s)

Minor Curricular Change Proposal
Mathematics Department
Patterns in Nature I: Visual Geometry

1. Details

a. Changes Requested

Prerequisites: Change 0401.102 *Principles of Biology* to 0401.105 *Essentials of Biology*

Catalog Description: add sentence.

b. Sponsors: Janet H. Caldwell & Ronald Czocho, Mathematics

2. Rationale

a. Statements of "need"

Prerequisites: Recent changes in Biological Sciences split the old course *Principles of Biology* into two new courses, one designed for math/science liberal studies majors (*Essentials*) and one designed for other students (*Principles*). The prerequisite for *Patterns* needs to change in order to be consistent with those changes.

Catalog Description: The Mathematics Department recently removed Precalculus as a formal prerequisite for all entry-level courses, since this was creating a great deal of difficulty for freshmen who had precalculus in high school. Instead, the Department has added a sentence concerning Precalculus as a prerequisite to the catalog descriptions. One of the prerequisites for *Patterns* (Statistics I) formerly had precalculus as a prerequisite; knowledge of this content is necessary for this course and for subsequent ones in the Math/Science Liberal Studies major. Consequently, we wish to add a sentence concerning this prerequisite to the catalog description.

b. Statements of curricular effect

These changes simply recognize and make accommodations for changes made elsewhere; there is no curricular effect.

3. Results of Consultation

Karen Magee-Sauer, Advisor, Math/Science Liberal Studies Major

Andrew Prieto, Chairperson, Biological Sciences

Catalog Description:

1703.305

Patterns in Nature I: Visual Geometry

3 s.h.

(Prerequisites: 0701.102, 1702.260, 0401.105, 1905.102 and 1902.150)

This course for students in the natural science track of the Liberal Studies major illustrates the connections between geometry and the natural sciences, using computers, manipulatives, and hands-on models. Geometric concepts covered include properties of two- and three dimensional shapes, transformations, dimension, and non-Euclidean.

*Students are expected to have completed the equivalent of Precalculus, including trigonometric, exponential, and logarithmic functions

*add to end of catalog description.

Memo

To: Ron Czochor, Janet Caldwell (Department of Mathematics)
From: Karen Magee-Sauer, Liberal Studies Math/Science Specialization
(Advisor/Coordinator)
Cc: Martin Itzkowitz, Chair Senate Curriculum Committee

Date: November 2, 1999

I support the proposed minor curricular changes in the pre-requisites and catalog description for the Patterns in Nature I course. Neither are really changes, but corrections and clarifications of what is already required.

Memo

To: Ron Czochor, Janet Caldwell (Department of Mathematics)
From: Karen Magee-Sauer, Liberal Studies Math/Science Specialization
(Advisor/Coordinator)
Cc: Martin Itzkowitz, Chair Senate Curriculum Committee

Date: November 2, 1999

I support the proposed minor curricular changes in the pre-requisites and catalog description for the Patterns in Nature I course. Neither are really changes, but corrections and clarifications of what is already required.