

PROCESS A NON-GENERAL EDUCATION ~ CURRICULUM PROPOSAL

SCC #03-04- 414

LIBRARY RESOURCE FORM REQUIRED

Deadlines

October 3, 2003 to be implemented Fall 2004 ~ February 13, 2004 to be implemented Spring 2005

PROPOSAL TITLE: ECE - Minor curriculum change proposal - change to prerequisites

Sponsor(s): Linda Head, ECE Acting Chair E-Mail: head@rowan.edu Ext: 5335

Robi Polikar, ECE Curriculum Comm. Chair E-Mail: polikar@rowan.edu Ext: 5372

DEPARTMENT: Electrical and Computer Engineering

COLLEGE: College of Engineering

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 Minor curricular changes (fewer than three) to:

Short-term non-gen-ed course Existing non-gen-ed course

Non-gen-ed degree requirements

Major

Minor, specialization, concentration, track, certificate program

THE FOLLOWING SIGNATURES REPRESENT APPROVAL

Department Chair: Robert L. Kuchant Date: 9/29/03

Department Curriculum Chair: Robi Polikar Date: 9/29/03

Academic Dean: Deanne Dorland Date: 10/1/03

COLLEGE CURRICULUM COMMITTEE

OPEN HEARING Date: 11-3-2003 Approved Not Approved

COLLEGE CURRICULUM CHAIR: Douglas Dillon

Senate Curriculum Chair Signature: Phillip Gibson Date: Senate Announcement 11-10-2003

Comments: _____

EXECUTIVE VICE PRESIDENT/PROVOST Signature: Steven Green Date: 1/2/04

Approved Not Approved

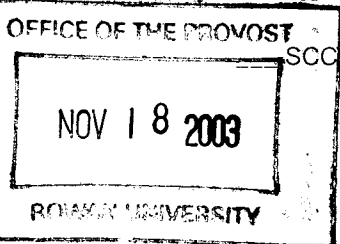
REGISTRAR

Date: 2/3/04 Course Description Received & Approved ~ Hegis Taxonomy & Course #: _____

Registrar Signature: _____

NOTIFICATION FORWARD

SCC Chair Academic Dean Department Chair Registrar IR CAP
 VP Student Affairs Others



Rowan University
Electrical and Computer Engineering

Minor Curriculum Change Proposal – Change to Prerequisites

Details:

a. Change Requested

From:

0909.202

Networks II

Prerequisite: 1902.201, 1701.235, 0909.210, concurrent enrollment in 1701.236

0909.311

Electronics I

Prerequisite: 0909.201

0909.301

Engineering Electromagnetics I

Prerequisite: 1701.236, 1902.200

0909.302

Engineering Electromagnetics II

Prerequisite: 0909.301, 1701.236

0909.242

Digital II: Microprocessors

Prerequisite: 0909.241

0909.312

Electronics II

Prerequisite: 0909.311

0909.321

Systems and Controls I

Prerequisite: 0909.202, 1701.236, 0909.241

0909.331

Electrical Communications Systems

Prerequisite: 0909.202, 1701.236

To:

0909.202

Networks II

Prerequisite: 1902.201, 1701.235, concurrent enrollment in 1701.236, must attain a C or better in 0909.201

0909.311

Electronics I

Prerequisite: must attain a C or better in 0909.201

0909.301

Engineering Electromagnetics I

Prerequisite: 1701.236, 1902.200, must attain a C or better in 0909.202

0909.302

Engineering Electromagnetics II

Prerequisite: 0909.301, 1701.236, must attain a C or better in 0909.202

0909.242

Digital II: Microprocessors

Prerequisite: must attain a C or better in 0909.241

0909.312

Electronics II

Prerequisite: must attain a C or better in 0909.311

0909.321

Systems and Controls I

Prerequisite: 1701.236, 0909.241, must attain a C or better in 0909.202

0909.331

Electrical Communications Systems

Prerequisite: 1701.236, must attain a C or better in 0909.202

b. Sponsor(s)

Linda M. Head, Acting Chair, Electrical and Computer Engineering

Robi Polikar, Chair, Electrical and Computer Engineering Clinic Committee

Rationale:

a. Statement of “need” for such a change.

Experience had proven that students with a grade of C- or less in the precursor course do not perform adequately in the courses listed above. Consequently, the Electrical and Computer Engineering faculty believe that an additional criteria should be added. This will give the students in the courses listed above a more realistic chance for success.

b. Statements of curricular effect. How the change will impact on program, department and/or curricular design.

This change does not affect our curriculum. It does require monitoring of enrollment at the beginning of each semester because many of these course follow one another with no intervening semester so the students who are doing less than C work in the prerequisite will often be allowed to register during the semester in which they are enrolled in the prerequisite.

Results of Consultation:

a. List all parties consulted.

The Computer Science Department, College of Liberal Arts and Sciences, is consulted on this proposal.

Polikar, Robi

From: Stephen J. Hartley [hartley@elvis.rowan.edu]
Sent: Tuesday, September 30, 2003 3:18 PM
To: head@rowan.edu
Cc: polikar@rowan.edu
Subject: letter of consultation for three ECE curriculum proposals

MEMORANDUM

TO: Linda M. Head, Acting Chair
Electrical and Computer Engineering

FROM: Stephen J. Hartley
Curriculum Committee
Computer Science Department

RE: Minor Changes to 0909.241 Digital I
Minor Changes to Course Prerequisites
Minor Change to Major Degree Requirements

The Computer Science Department supports the above named curricular minor change proposals.

Adding the study of a hardware development language to Digital I will strengthen the course content and better prepare students for later project work.

We agree that adding a requirement of a grade of C or better in ECE prerequisite courses will result in students having a better chance of performing adequately in each course listed.

Allowing the substitution of 0704.390 Operating Systems or 0704.315 Programming Languages for 0707.321 Software Engineering in the ECE major requirements will give ECE majors more flexibility and options in selecting courses according to their interests and needs. The only concern of the Computer Science Department is the effect the change will have on the number of sections needed for the three courses. We will need to monitor the situation so that we can meet the shifts in demand.

Rowan University
CURRICULUM PROPOSAL
LIBRARY RESOURCE FORM

The purpose of this form is to provide a channel of communication between the library and faculty changing and designing new courses/programs. The information will be used to assess the resources available in the library, and to identify resources the library should acquire to support the course/program. The information will also provide rationale for institutional support for library acquisitions. This form should be completed in a coordinated effort between the course sponsor(s) and the academic department liaison librarian. THIS FORM MUST BE COMPLETED FOR ALL CURRICULUM PROPOSALS.

- The sponsor(s) complete parts A & B
If assistance is required to complete parts A & B, please notify the liaison librarian.
- Forward this form to the librarian who will complete parts C, D & E

This form must be completed and attached to the original curriculum proposal before being approved by the Senate Curriculum Committee

A. College Engineering Department Electrical & Comp
 Proposed by: L Head & R Polikar Date: 10/7/03
 Course Title: Prerequisite Changes Only
 Anticipated Date for Course/Program Offering: _____

B. List specific resources that should be acquired to support this course.
None

C. Describe the resources available in the library to support this course/program, including reference, monographic, electronic databases, audio-visual materials, etc. A summary statement is sufficient.

D. List key periodicals available in the library to support this course/program.

E. Librarian comments and recommendations:
Review of library resources not required for prerequisite changes

Name: LIBRARIAN LIAISON MARILYN MARTIN Librarian Signature: Marilyn J. Martin