



PROCESS A NON-GENERAL EDUCATION ~ CURRICULUM PROPOSAL

SCC #03-04- 464

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 - Change to Major Degree Program

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
- 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

THE FOLLOWING SIGNATURES REPRESENT APPROVAL

Department Chair: *Robert P. Krach* Date: 9/29/03
 Department Curriculum Chair: *Robi Polikar* Date: 09/29/03
 Academic Dean: *Deanne Dore* Date: 10/1/03

COLLEGE CURRICULUM COMMITTEE

OPEN HEARING Date: 11-3-2003 Approved Not Approved
 COLLEGE CURRICULUM CHAIR: *Deanne Dore*
 Senate Curriculum Chair Signature: *Phillip A. Sun* Date: Senate Announcement 11-10-2003
 Comments: _____

EXECUTIVE VICE PRESIDENT/PROVOST Signature: *Allen Jones* Date: 1/27/04

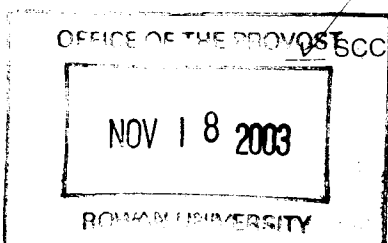
Approved Not Approved

REGISTRAR

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

NOTIFICATION FORWARD

OFFICE OF THE PROVOST SCC Chair Academic Dean Department Chair Registrar IR CAP
 VP Student Affairs Others



rw
Tim 2/16/04

Rowan University
Electrical and Computer Engineering

Minor Curriculum Change Proposal – Change to Major Degree Program

Details:

a. Change Requested

From: Major Requirement, Software Engineering, 0707.321

To: Major Requirement, one of the following courses:

- i. Software Engineering, 0707.321
- ii. Operating Systems, 0704.390
- iii. Programming Languages, 0704.315

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.

Many Electrical and Computer Engineering (ECE) students have an interest in various aspects of the software aspects of Computer Engineering. We have received numerous requests for exceptions to the requirement for Software Engineering from students who desire expanded options in our curriculum.

Since there are strong interdisciplinary ties between Electrical and Computer Engineering and Computer Science, the ECE program encourages its majors to take advantage of the opportunities resulting from the collaboration between ECE and CS on the Rowan campus. This minor curriculum change will help the ECE majors who choose to obtain an emphasis in Computer Engineering to better tailor their program to meet personal needs.

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

The Software Engineering course is scheduled in the fall of the senior year for the Electrical and Computer Engineering students and is not a prerequisite to any required course in the spring of the senior year, thus, this change will not have any programmatic effect.

In conversations with the curriculum committee of the Computer Science Department, College of Liberal Arts and Sciences, the two additional courses were identified as appropriate for Electrical and Computer Engineering students. We anticipate that any ECE student who chooses to take 0707.315 or 0707.390 will meet the prerequisite for the chosen course.

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: None - Change of Major Requirements
 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 ~~proposed~~ change of major requirements

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