**PROPOSAL NUMBER: 99- 454**

**CURRICULUM PROPOSAL FORM**

*DEADLINES:

**PROPOSAL TITLE:** Change of Designation of Degree Title: From "B.S. in Electrical" TO B.S. in Electrical and Computer Engineering

**SPONSOR/S:** Electrical Engineering Dept.

**DEPARTMENT:**

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**CHECK ALL THAT APPLY:**

- [ ] UNDERGRADUATE
- [ ] GRADUATE

**COLLEGE:** Engineering

If LAS:

- [ ] History/Humanities
- [ ] Math/Sciences
- [ ] Social/Behavioral Sciences

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**TYPE OF PROPOSAL (Check ALL that Apply)**

- [ ] General Education
- [ ] New Course in __________ Bank
- [ ] Existing course, Add To __________ Bank
- [ ] Multicultural/Global Designation
- [ ] Writing Intensive Designation
- [ ] Literature Designation
- [ ] New Minor/Concentration/Specialization
- [ ] New Major/Degree Program
- [ ] Short Term Course Proposal

- [ ] New Course (NOT Gen. Ed.)
- [ ] Name Change (Dept., School, Major)
- [ ] Changes in Degree Requirements
- [ ] Changes Involve Gen. Ed. requirements
- [ ] Minor Changes to Existing Courses
- [ ] Course is NOT General Education
- [ ] Course IS General Education

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**DEPARTMENT**

(SIGNATURE INDICATES APPROVAL)

[Signature]


DEPT. CURRICULUM CHAIR / DATE

DEPT. CHAIRPERSON / DATE

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**COLLEGE CURRICULUM COMMITTEE**

DATE OF OPEN HEARING (if necessary) [ ] APPROVED — [ ] NOT APPROVED

COMMENTS: [ ] 1997-1998 proposal

**ACADEMIC DEAN (& GRADUATE DEAN, for New Graduate Programs Only)**

[Signature]

4/8/1999

SIGNATURE (Graduate Dean) DATE
UNIVERSITY CURRICULUM COMMITTEE

DATE OF OPEN HEARING (if necessary): 4/8/99

APPROVED

NOT APPROVED

COMMENTS:

College of Engineering have approved abbreviation to "Electrical & Computer Eng." degree to meet 30-character limit on degree name.

Approved by: [Signature]
Date: 4/14/99

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)

curriculum/curfrms.989/9899prop.wpd
Change of Designation of Degree Title:
From "B.S. in Electrical Engineering" to
"B.S. in Electrical & Computer Engineering"

1. Details
   a. Change Requested:  Change of degree name from "Bachelor of Science in Electrical
                           Engineering" to "Bachelor of Science in Electrical and Computer
                           Engineering" [may be shortened to Electrical and
                           Computer Eng., to meet 36 character limit]
   b. Sponsors:        Electrical & Computer Engineering Program

2. RATIONALE:
   a. Statement of need:  The Senate Curriculum Committee and Provost recently
                           approved a name change of the Electrical Engineering
                           Program to the "Electrical and Computer Engineering
                           Program." This proposal would bring the DEGREE
                           in line with the Program name change.

   b. Statement of Curricular
      Effect:           None currently; the curriculum for the Bachelor of
                        Science degree will remain the same.

3. Results of Consultation:
   a. Parties consulted:  Consultations were internal to the Engineering College.
                           Computer Science was also consulted (see attached).
   b. Results:            Computer Science and Electrical Engineering are
                           currently discussing overlap of titles and courses.
To: John L. Schmalzel, Chair, Electrical and Computer Engineering  
From: Don C. Stone, Chair, Computer Science  
Date: 8 April 1999  
Re: B. S. in Electrical and Computer Engineering

Extensive discussions between Computer Science and Electrical and Computer Engineering concerning curriculum concerns and issues have resulted in the attached Memorandum of Understanding. In light of this memorandum, the Computer Science Department supports the change of designation of degree title from B. S. in Electrical Engineering to B. S. in Electrical and Computer Engineering.
Memorandum of Understanding
7 April 1999

Purpose: The purpose of this memorandum of understanding is to clarify some of the issues relating to shared curriculum interests between the Department of Computer Science (CS) and the Electrical and Computer Engineering (ECE) Program.

Background: The active collaboration between ECE and CS is of significant value; efforts to date have resulted in funded NSF proposals, course development, and laboratory development. We would like to continue to develop our interaction, building upon the strengths of our respective areas. We also recognize that both CS and ECE must operate in such a way as to meet the program needs developed by their respective faculties to achieve their curricular goals and to meet the requirements of accrediting bodies such as Computing Sciences Accreditation Board (CSAB) and the Accreditation Board for Engineering and Technology (ABET). Both CS and ECE believe that their current curricula are accreditable essentially as they now stand without significant changes in content.

1. Areas of significant efforts. Both CS and ECE deal broadly with computers; however, each will concentrate most of their efforts in one of two areas. CS will emphasize software and algorithms and ECE will emphasize hardware systems. Recognizing that hardware and software are part of a continuum, this agreement does not preclude the inclusion of an appropriate balance of hardware and software in either program. However, ECE makes a commitment not to put significant resources into developing new capabilities in the software/algorithms area, and CS makes a commitment not to put significant resources into developing new capabilities in the hardware area.

2. Future curriculum development.
   a. Undergraduate programs: Planning for possible future curriculum development related to Computer Engineering or to Software Engineering as a major, minor, or concentration should include both ECE and CS, and in all probability the result will be jointly administered.
   b. Graduate programs: CS will support (if proposed) an MS in ECE in the College of Engineering, and ECE will support (if proposed) an MS in CS or an MS in Software Engineering in the College of Liberal Arts and Sciences.

3. Minor in Computer Science. Some of the courses included in the current ECE program are requirements or elective options for a minor in CS; other courses in the ECE program are similar to required or elective courses for the CS minor. It would be a benefit for students majoring in ECE if they could obtain a minor in CS within the existing curriculum requirements of the 4-year, 128-hour degree, and this does appear to be possible. Clarifying the coursework equivalence between the CS minor and the ECE program will facilitate this process and can be done as part of the process of developing the equivalences relating to a dual major in ECE and CS.

Don C. Stone, Chair of CS
Pearl Bartelt, Dean, CoLAS

John L. Schmalzel, Chair of ECE
James H. Tracey, Dean, CoE
July 19, 1999

Dr. Peter Burnham, Chair
President's Council
New Jersey Commission on Higher Education
Brookdale Community College
765 Newman Springs Road
Lincroft, NJ 07738-1597

RE: Nomenclature Change of Major Program at Rowan University

Dear Dr. Burnham:

Rowan University wishes to report the following nomenclature change in an undergraduate major program:

From: Bachelor of Science in Electrical Engineering
To: Bachelor of Science in Electrical and Computer Engineering

This change was initiated to better describe the content of the program. It was approved by the dean of the College of Engineering, the University Senate Curriculum Committee and the Executive Vice President/Provost. The University Board of Trustees formally approved this at its public meeting on June 23, 1999.

This information is being provided in order to update your records of major programs offered by Rowan University.

If you have any questions or desire additional information, please contact me.

Sincerely,

[Signature]
Donald J. Farish
President

cc: James Sulton, Executive Director, New Jersey Commission on Higher Education
Dr. Ronald Appelbaum, Chair, New Program Review Committee
Dr. Carol Matteson, Executive Vice President/Provost
Dr. James Tracey, Dean, College of Engineering
Dr. John L. Schmalzel, Chair of Electrical and Computer Engineering Program