

ROWAN COLLEGE
CURRICULUM COMMITTEE

MINOR CHANGE

RECEIVED
OCT 29 1996

PROPOSAL TITLE: Changing Restricted Electives for Computer Science Majors

 UNDERGRADUATE GRADUATE 3 CREDIT HOURS

SPONSOR(S): Jianning Xu

DEPARTMENT & TELEPHONE# Computer Science 256-4805/3884

CHECK ONE:

- CHANGES IN APPROVED MINORS, SPECIALIZATIONS, CONCENTRATIONS
- CATALOGUE DESCRIPTIONS AND/OR PREREQUISITE CHANGES
- SMALL CHANGES IN COURSE CONTENT OF EXISTING COURSES WHICH DO NOT SUBSTANTIALLY VARY THE CURRICULUM
- CHANGES IN HEGIS NUMBER

STEP #1 (DEPARTMENT)

APPROVED / DATE: 10/23/96

NOT APPROVED / DATE: _____

[Signature]
(DEPT. CURRICULUM CHR./ DATE)

Don C. Stone 10/22/96
DEPT. CHR./DATE

STEP #2 (SCHOOL)

DATE REVIEWED 2/6/97

RECOMMEND TO APPROVE

RECOMMEND NOT TO APPROVE

COMMENTS:

[Signature]
SCHOOL CURRICULUM CHR.

STEP #3 (ACADEMIC DEAN)

RECOMMEND NOT RECOMMENDED

DATE REVIEWED: [Signature]

[Signature]
DEAN OF SCHOOL SIGNATURE

STEP #4 (CURRICULUM COMMITTEE) } SENATE

SCC# 4-0-97-67

DATE RECEIVED: _____ OCT 23

APPROVED NOT APPROVED

[Signature] 2/13/97
CURRICULUM COMMITTEE CHR. SIGNATURE

STEP #5 EXE. VP/PROVOST

APPROVED

NOT APPROVED

[Signature]
SIGNATURE/DATE

REGISTRAR'S SIGNATURE/DATE 137-Kelsey 1/11/97

**Rowan College of New Jersey
Department of Computer Science**

**Minor Curricular Change
Changing Restricted Electives for Computer Science Majors**

1. Details

a. Change requested: Change Restricted Electives from:

Restricted Electives - 12 s.h., include at least two advanced computer science courses

1. Advanced Computer Science

- 0707.360 Computer Graphics [1701.210 & 0704.315]
- 0706.410 Data Communications and Networking [0706.310 & 1702.360]
- 0707.422 Theory of Computing [0704.222 & 1701.131]
- 0707.450 Artificial Intelligence [0704.315 & 1701.210]
- 0704.401 Compiler Design [0707.210 & 0704.315]
- 0706.412 Advanced Computer Architecture [0706.310]
- 0701.395 Topics in Computer Science [permission of instructor]

2. Others

- 0799.300 Computer Field Experience [permission of instructor]
- 0704.325 Programming in Ada [0704.222]
- 0704.333 Structured Design and Programming Using COBOL [0701.102]
- 0704.334 Advanced Structured Design and Programming Using COBOL [0704.333]
- 0502.210 Accounting I
- 0702.322 Principles of System Design [0502.210 & 0704.103]
- 0702.338 Design of Data Base Systems [0704.333 & 0702.322]
- 0507.430 Principles of Management Science [0701.100, 1702.260, 1703.125]
- 1701.230 Calculus III [1701.131] 4 s.h.
- 1701.332 Numerical Analysis [0701.102, 1701.210, & 1701.131]
- 1701.340 Modern Algebra [1701.210]
- 1701.320 Differential Equations [1701.230 & 1701.210]
- 1702.361 Prob. & Stat. II [1702.360] or 1702.261 Stat. II [1702.260]
- 1703.400 Application of Mathematics [1701.230 & 1701.210]

to:

Restricted Electives - 12 s.h.

1. Computer Courses - at least 9 s.h.

- 1a. Advanced Computer Science Courses - at least 6 s.h.
- 0707.360 Computer Graphics [1701.210 & 0704.315]
 - 0706.410 Data Communications and Networking [0706.310 & 1702.360]
 - 0707.422 Theory of Computing [0704.222 & 1701.131]
 - 0707.450 Artificial Intelligence [0704.315 & 1701.210]
 - 0704.401 Compiler Design [0707.210 & 0704.315]
 - 0706.412 Advanced Computer Architecture [0706.310]
 - 0701.395 Topics in Computer Science [permission of instructor]

1b. Other Computer Science Courses

- 0799.300 Computer Field Experience [permission of instructor]
- 0704.325 Programming in Ada [0704.222]
- 0704.233 Structured Design and Programming Using COBOL [0701.102]
- 0704.234 Advanced Structured Design and Programming Using COBOL [0704.233]
- 0702.338 Design of Data Base Systems [0704.233 & 0702.322]

2. Others

- 0502.210 Accounting I
- 0702.322 Principles of System Design [0502.210 & 0704.103]
- 0507.430 Principles of Management Science [0701.100, 1702.260, 1703.125]
- 1701.230 Calculus III [1701.131] 4 s.h.
- 1701.332 Numerical Analysis [0701.102, 1701.210, & 1701.131]
- 1701.340 Modern Algebra [1701.210]
- 1701.320 Differential Equations [1701.230 & 1701.210]
- 1702.361 Prob. & Stat. II [1702.360]
- 1703.400 Application of Mathematics [1701.230 & 1701.210]

b. Sponsor: Jianning Xu, Assistant Professor, Computer Science

2. Rationale

a. Statement of "need" for such a change:

The Computer Science Department has decided to start the efforts to seek accreditation from the Computer Science Accreditation Board (CSAB) for our program. As a part of the efforts, certain curricular changes are needed. The accreditation criteria require that at least 40 s.h. in the program are devoted to computer science topics. In our current program, we only have 38 s.h. on computer

topics. With the proposed change, this number will be increased to 41. We also propose to eliminate the Stat. II option from the list because we have proposed (in a separate proposal) to remove Stat. I as an option for one of our major requirements.

b. Statement of curricular effect:

Students will be required to select one more course on computer science topics in restricted electives.

3. Results of Consultation

Letters of consultation have been sent to the Department of Management and the Department of Mathematics.