

ROWAN COLLEGE  
CURRICULUM COMMITTEE

2

M I N O R C H A N G E

RECEIVED  
DEC 03 1996

PROPOSAL TITLE: Change Catalogue Description and Prerequisites for Theory of Computing

UNDERGRADUATE       GRADUATE       CREDIT HOURS

SPONSOR(S): Nancy L. Tinkham, Computer Science Department

DEPARTMENT & TELEPHONE# 4805

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

<p>STEP #1 (DEPARTMENT)</p> <p><input checked="" type="checkbox"/> APPROVED / DATE: <u>11-6-96</u></p> <p>NOT APPROVED / DATE: _____</p> <p><u>Nancy L. Tinkham</u> (DEPT. CURRICULUM CHR. / DATE) <u>11/6/96</u></p> <p><u>Don C. Str...</u> DEPT. CHR./DATE</p>	<p>STEP #2 (SCHOOL)</p> <p>DATE REVIEWED <u>11/26/96</u></p> <p><input checked="" type="checkbox"/> RECOMMEND TO APPROVE</p> <p><input type="checkbox"/> RECOMMEND NOT TO APPROVE</p> <p>COMMENTS:</p> <p><u>Karl P. Mag...</u> SCHOOL CURRICULUM CHR.</p>	<p>STEP #3 (ACADENIC DEAN)</p> <p><input checked="" type="checkbox"/> RECOMMEND      <input type="checkbox"/> NOT RECOMMENDED</p> <p>DATE REVIEWED: <u>12/4/96</u></p> <p><u>[Signature]</u> DEAN OF SCHOOL SIGNATURE</p>
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<p>STEP #4 (CURRICULUM COMMITTEE)</p> <p>SCC# <u>16 97-83</u></p> <p>DATE RECEIVED: <u>11-11-96</u></p> <p><input checked="" type="checkbox"/> APPROVED      <input type="checkbox"/> NOT APPROVED</p> <p><u>Ronald J. G...</u> CURRICULUM COMMITTEE CHR. SIGNATURE</p>	<p>STEP #5 EXE. VP/PROVOST</p> <p>OFFICE OF THE PROVOST</p> <p><input checked="" type="checkbox"/> APPROVED</p> <p><input type="checkbox"/> NOT APPROVED</p> <p>FEB 11 1997</p> <p>ROWAN COLLEGE OF NEW JERSEY</p> <p><u>[Signature]</u> 2/13/97 SIGNATURE/DATE</p>
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REGISTRAR'S SIGNATURE/DATE B. Kelsey 12/17/97

**Minor Curricular Change**  
**Change Catalogue Description and Prerequisites for Theory of Computing**  
**(0707.422)**

**1. Details:**

**a. Change Requested:**

**Old Catalogue Description and Prerequisites:**

0707.422

Theory of Computing

*(Prerequisites: 0704.222 and 1701.131)*

This course includes models of computers such as finite automata and turing machines, the basics of formal languages and their applications to the syntax of programming languages. It includes the design of efficient algorithms and an analysis of their complexity and discusses NP-complete problems and approximation algorithms of them.

**New Catalogue Description and Prerequisites:**

0707.422

Theory of Computing

*(Prerequisites: 0704.222, 1701.131, and 0707.210)*

This is an advanced course in the theoretical foundations of computer science, building on the introduction provided in the Foundations of Computer Science course. It studies models of computers such as finite automata and Turing machines, formal languages, and computability, as well as the fundamentals of complexity theory and NP-completeness.

**b. Sponsor: Nancy Tinkham**

**2. Rationale**

**a. Statement of need for the change:**

The new course *Foundations of Computer Science* (0707.210) provides an introduction to the theory of computing. The *Theory of Computing* course is now a more advanced course, building on the material taught in *Foundations*.

The new course *Design and Analysis of Algorithms* is a required course for computer science majors and covers some of the topics previously found in *Theory of Computing*; these topics have thus been removed from the catalogue description for *Theory of Computing*.

**b. Statement of curricular effect**

*Theory of Computing* will continue to be an elective designed for junior and senior Computer Science majors. *Foundations of Computer Science* has been added as a prerequisite.

**3. Results of consultation:**

Consultation has been internal to the department.

SENATE CURRICULUM COMMITTEE OPEN HEARING SUMMARY

DATE 1-29 NUMBER CURRICULUM MEMBERS ATTENDING \_\_\_\_\_

PROPOSAL # 96-97 TITLE Menor chy -

Tenkham

PROPOSAL REPRESENTATIVES \_\_\_\_\_

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SUMMARY OF HEARING \_\_\_\_\_

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PASSED WITH NO CHANGES

PASSED - RETURN TO SPONSOR FOR MINOR CHANGES

\*TABLED WITH SUGGESTED MINOR CHANGES

\*\*NOT APPROVED

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# ROWAN

College Senate

Date: (609) 256-4515 January 30, 1997

To: Dr. Nancy Tinkham

From: Senate Curriculum Committee

RE: Minor Changes: Catalog Description for Introduction to Programming; SCC#96-97-85  
Change Catalog Description and Prerequisites for Artificial Intelligence; SCC#96-97-84  
Change Catalog Description and Prerequisites for Theory of Computing; SCC#96-97-83

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Scheduled for a Hearing. Please have someone attend the hearing who can present the proposal and answer questions about it.

DATE: 1/29/97 TIME: LOCATION: Room #326 Library

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Approved subject to revision. The recommended changes are highlighted on the attached proposal. You may contact Dr. Ronald Czochoz to discuss suggested revisions. When changes are received, the proposal will be reported to the Senate and forwarded to the office of the Executive Vice President/Provost.

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Approved by the Senate Curriculum Committee and will be reported to the Senate. The proposal will be forwarded to the office of the Executive Vice President/Provost.

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Approved by the Senate Curriculum Committee and will be voted on at the next Senate meeting. It is strongly recommended that a member of your department be present to defend your proposal. Upon approval by the Senate, the proposal will be forwarded to the office of the Executive Vice President/Provost.

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Approved by the Senate Curriculum Committee and has been reported to the Senate. The proposal will be forwarded to the Office of the Executive Vice President/Provost.

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Tabled.

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Disapproved.

a:curappr.pri