

ROWAN COLLEGE
CURRICULUM COMMITTEE

MINOR CHANGES

DEC 03 1996

PROPOSAL TITLE: Change Catalogue Description and Prerequisites for Artificial Intelligence

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. Stone</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>Ken P. Blaser, Sr.</u> SCHOOL CURRICULUM CHR.</p>	<p>STEP #3 (ACADEMIC 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>Patricia A. [Signature]</u> DEAN OF SCHOOL SIGNATURE</p>
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<p>STEP #4 (CURRICULUM COMMITTEE)</p> <p>SCC# <u>96-97-84</u></p> <p>DATE RECEIVED: <u>11-17-96</u></p> <p><input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> NOT APPROVED</p> <p><u>Emily J. [Signature]</u> CURRICULUM COMMITTEE CHR. SIGNATURE</p>	<p>STEP #5 EXE. VP/PROVOST</p> <p><input checked="" type="checkbox"/> APPROVED</p> <p><input type="checkbox"/> NOT APPROVED</p> <p>OFFICE OF THE PROVOST</p> <p>FEB 11 1997</p> <p><u>[Signature]</u> SIGNATURE/DATE</p> <p>ROWAN COLLEGE OF NEW JERSEY</p>
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SENATE
DEC 4
RECEIVED

REGISTRAR'S SIGNATURE/DATE B. J. Kelsey 17 Mar '97

Minor Curricular Change
Change Catalogue Description and Prerequisites for Artificial Intelligence
(0707.450)

1. Details:

a. Change Requested:

Old Catalogue Description and Prerequisites:

0707.450

Artificial Intelligence (AI)

(Prerequisites: 1701.210 and 0704.315)

AI encompasses many of the new developments in computer science. Students survey its three main research areas: vision, natural language processing and expert systems, and its use of data representation, search, logic, deduction and learning. In addition to readings, discussion, and problem solving in AI, students will be expected to program in LISP, the language of the AI community, and present a research project.

New Catalogue Description and Prerequisites:

0707.450

Artificial Intelligence (AI)

(Prerequisites: 1703.150, 0704.222, and 0707.210)

AI studies methods for programming “intelligent” behavior in computers. Students study the data representation methods and algorithms used in AI, and survey research areas such as puzzle-solving, game-playing, natural language processing, expert systems, and learning. In addition to readings, discussion, and problem solving in AI, students will be expected to program in one of the languages commonly used in AI, such as LISP or Prolog.

b. Sponsor: Nancy Tinkham

2. Rationale

a. Statement of need for the change:

Foundations of Computer Science has been added to the prerequisite list because *Foundations* covers logic and formal grammars, both of which are used in *Artificial Intelligence (AI)*. The *Programming Languages* prerequisite was originally present because *Programming Languages* taught LISP programming; since *Programming Languages* no longer consistently includes LISP, and since LISP will not necessarily be used in the AI course, this prerequisite is not needed. It has been replaced by *Data Structures*, since students still need the level of

programming experience that *Data Structures* provides. The *Linear Algebra* prerequisite has been removed, since the AI course does not use linear algebra; it has been replaced by the more appropriate mathematics requirement of *Discrete Math*.

The original catalogue description was unnecessarily restrictive in its list of topics and its specification of a single programming language. The revised catalogue description more accurately reflects the breadth of the artificial intelligence field and the variety of languages used in AI programming.

b. Statement of curricular effect

The prerequisites for *Artificial Intelligence* will be changed from 1701.210 and 0704.315 to 1703.150, 0704.222, and 0707.210. In general, this means that it will be easier for Computer Science majors to meet the prerequisites for the course.

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 # 96-97-84 TITLE Minor Chg
Tenkhem

PROPOSAL REPRESENTATIVES _____

SUMMARY OF HEARING _____

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

(609) 256-4515

Date: 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

_____ 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

_____ 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.

_____ 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.

_____ 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.

XXX

_____ 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.

_____ Tabled.

_____ Disapproved.

a:curappr.pri