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Approval Form

Proposal Title: Computers and Society (491.265)

Sponsor(s) A. Michael Berman Dept.: Computer Science Ext 6521

Check one: ~~Course~~ Specialization Concentration Minor Achievement Certificate
 Certification Program Major Program Minor Change major requirement
(please name deletion or credit/catalog change)

Undergraduate Graduate _____ Credit Hours

<p>Step 1 (Department)</p> <p><input checked="" type="checkbox"/> Approved <u>1/27/93</u> <small>Date</small></p> <p><input type="checkbox"/> Not Approved</p> <p><u>A. Michael Berman</u> <small>Dept. CC Chairperson</small></p> <p><input checked="" type="checkbox"/> Reviewed <u>2/14/93</u> <small>Date</small></p> <p><u>Don C. ...</u> <small>Dept. Chairperson</small></p>	<p>Step 2 (Receipt)</p> <p><input checked="" type="checkbox"/> SCC# <u>491.265</u></p> <p>Proposal Received _____ <small>Date</small></p> <p><u>Wayne J. Putman</u> <small>SCC Chairperson</small></p>	<p>Step 3 (School CC)</p> <p>Reviewed <u>4-28-93</u></p> <p><input checked="" type="checkbox"/> Approved <input type="checkbox"/> Not Approved</p> <p>Comments:</p> <p><u>J. Caldwell</u> <small>School Curr. Comm. Chairperson</small></p>
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<p>Step 4 (Academic Dean)</p> <p><input type="checkbox"/> Recommend <input type="checkbox"/> Not Recommend <input type="checkbox"/> Conditionally Recommend (see comments)</p> <p>Reviewed _____ <small>Date</small></p>	<p>Comments:</p> <p>_____</p> <p>_____ <small>Signature, Dean of School</small></p>
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Step 5 (SCC)

Open Hearing 10/29/93 Approved by Senate Curriculum Committee 10/19/94
Date Date

Returned to sponsor(s) for the following reasons:

Step 6 (Senate)

Presented to Senate 10/26/94 Approved Not Approved
Date

Notification to Executive Vice-President/Provost 10/26/94 Paul J. Gahan
Date Signature SCC Chairperson

Step 7 (Executive V.P./Provost)

Received 11/4/94

Date

If no, reasons are as follows:

Approved Yes No

Student credit hours _____

Faculty load hours _____

Equalized credit hours _____

Official copy and approval sheet filed _____
Date

Edward L. Cepelade
Signature, Executive Vice-President/Provost

Registrar

Approved course description received 22 Nov 94
Date

Hegis Taxonomy and Course Number assigned MAA1 Requirement
B. Z. Kelsey Signature, Registrar 22 Nov 94 Date

Notification forwarded:

- Senate Curriculum Committee Chairperson
- Department Chairperson(s)
- Academic Dean(s)
- Registrar
- Sponsor(s)

Rowan College of New Jersey
Department of Computer Science

Minor Curricular Change:
Require "Computers and Society" for C.S. Majors

1. Details

- a. Change Requested: Make the course "Computers and Society" (4901.265) a major requirement for Computer Science.
- b. Sponsor: A. Michael Berman, Department of Computer Science

2. Rationale

- a. Statement of need for change:

Computers and Society is an interdisciplinary course focusing upon the effects of computer systems on individuals and institutions. There is a recognition in the Computer Science field that we are responsible for assuring that our students are familiar with the consequences of their actions in the profession. For example, *Computing Curricula 1991* states that:

"Undergraduates . . . need to understand the basic cultural, social, legal and ethical issues inherent in the discipline of computing. . . . Students also need to develop the ability to ask serious questions about the social impact of computing and to evaluate proposed answers to those questions . . . [U]ndergraduate programs should devote explicit curricular time to the study of social and professional issues."¹

The Computing Sciences Accreditation Board, the leading accreditation program in the field, includes the following statement in their Evaluative Criteria: "The social and ethical implications of computing must be included in the program."²

¹*Computing Curricula 1991: Report of the ACM/IEEE-CS Joint Curriculum Task Force*, ACM Press, 1991. Page 11.

²"Criteria For Accrediting Programs in Computer Science In the United States," Computer Science Accreditation Commission of the Computing Sciences Accreditation Board, June 1992, Page 12.

- b. Statement of curricular effect: Computers and Society is a General Education course in the Social and Behavioral Sciences bank. Computer Science majors would use three of their 12 General Education hours for this course. Transfer students, including those who have completed their General Education, would also be required to take this course.

This course has been approved for designation as "Writing Intensive" when taught by a properly trained instructor.

3. Results of Consultation:

- a. List of all parties consulted: The department discussed this change as part of our 1991--92 Department Self-Study. The consultant for the self-study, Professor Jack Beidler of Scranton University, commented that requiring Computers and Society for C.S. majors "is one appropriate way to cover social and ethical issues."
- b. The relevant page from our Self-Study is attached.

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Department of Computing Sciences

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3 March 1992

Mr. Kenneth Clay, Dean for Academic Administration
Glassboro State College
Glassboro, NJ 08028-1701

Ken,

Enclosed is my review of the Computer Science Department's Self Study. I hope you find it helpful in assisting you in establishing the future direction providing to the Computer Science Program. I enjoyed the opportunity to visit Glassboro and meet with your computer science faculty. They are a good group. Please feel free to contact me if there are any questions regarding my response to the self study or any need for clarification.

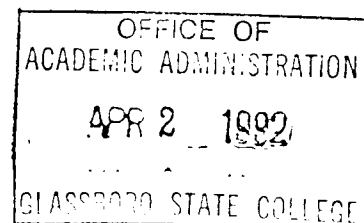
Also enclosed is my expense sheet with receipts for the major expenses. I believe I have included all the materials you required with the expense form.

Please convey my regards to everyone for making my two day stay at Glassboro pleasant and enjoyable.

Sincerely,



John Beidler



Recommendation 6: New Advanced Restricted Electives

This should be done to provide more options in meeting the depth requirement for the advanced component of the CSAB curriculum requirements.

Recommendation 7: Stat I or Probability and Statistics

Both probability and statistics are important cognates to computer science. The faculty are correct in carefully reviewing the variety of options available to them and determining what is best for their students.

Recommendation 8: Discrete Mathematics

A freshman level discrete mathematics course is extremely important in the development of a strong computer science curriculum. I'd recommend that the Dean establish a joint committee of interested faculty in both the Mathematics Department and the Computer Science Department to resolve these issues. The ideal situation is that the course be taught by an interested member of the mathematics faculty, but that the selection of topics must include topics appropriate for computer science majors.

Recommendation 9: Reduce G.E. Arts requirement

I do not see this as critical to the development of computer science majors, a little extra understanding of the arts won't hurt them.

Recommendation 10: Restructuring of the hardware oriented courses.

This restructuring is a must. It will help balance the coverage of the core component of your new curriculum.

Recommendation 11: Condensing the schedule

Although long chains of prerequisites may be a burden to some transfer students, it is also important that course build upon knowledge obtained in previous courses in order to give depth to your curriculum.

Recommendation 12: Require Computers and Society for C.S. majors

This is one appropriate way to cover social and ethical issues.