

CURRICULUM PROPOSAL FORM 1999-2000

PROPOSAL

NON-GENERAL EDUCATION PROCESS A

***DEADLINES:** Deadline dates for 1999/2000 submissions: Regular proposals: October 22, 1999 to be implemented in Fall 2000; Short-Term proposals: December 10, 1999 to be implemented in Fall, 2000; Regular proposals February 18, 2000 to be implemented in Spring, 2001; March 24, 2000 for short-term courses to be implemented in Spring 2001.

PROPOSAL TITLE: Minor Curricular Change: Changing the typical outline for Advanced Computer Examinations

SPONSOR(S): Leigh Weiss, Jerry Spencer

DEPARTMENT: Computer Science

COLLEGE: LAS

IF LAS CHECK ONE: History/Humanities Math/Sciences Social/Behavioral Sciences

Check one: Undergraduate Graduate

THE ATTACHED *NON-GEN-ED* PROPOSAL IS BEST DESCRIBED BY THE ITEM(S) CHECKED.

New non-gen-ed course

Short-term non-gen-ed course

Minor curricular changes (fewer than three) to:

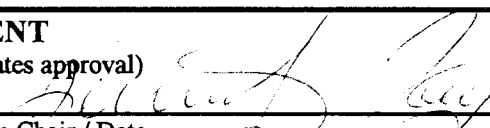
existing non-gen-ed course

non-gen-ed degree requirements

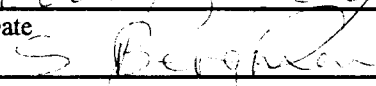
major

minor, specialization, concentration, track, certificate program

DEPARTMENT
(Signature indicates approval)

 10/22/99

Dept. Curriculum Chair / Date

 10/22/99

Dept. Chairperson / Date

ACADEMIC DEAN

Approved Not Approved Comments:

Dean's Signature/Date  11/2/99

COLLEGE CURRICULUM COMMITTEE

Date of open hearing (if necessary) 11/30/01 Approved X Not Approved _____

Comments: provide missing item (2) in original course outline

Signature of College Chair/Date: M. J. Spill 11/30/01

OK M. J. Spill

UNIVERSITY CURRICULUM COMMITTEE

Date Received/Processed 5/7/01

Comments:

Curriculum Chair Signature [Signature]

Date Announced At Senate 5-8-01

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): _____ Executive VP/Provost Signature/Date [Signature] 5/16/01

REGISTRAR

Date Approved Course Description Received 5/23/01

Hegis Taxonomy & Course Number Assigned _____

Registrar Signature/Date [Signature]

NOTIFICATION FORWARD

_____ Senate Curriculum Committee Chairperson

_____ Academic Dean(s)

_____ Department Chairpersons

_____ Registrar

_____ Sponsor(s)

ROWAN UNIVERSITY
Department of Computer Science

Minor Curricular Change:

Changing the topical outline for Advanced Computer Environments

1. Details:

- a) Change requested: Updated Topical Outline of Advanced Computing Environments 0701-561

Change From Old Topical Outline:

Review operating systems and environments such as: Windows, Windows for Workgroups, Windows NT, JAVA applets, and Unix.

1) Internet resources

- (a) E-mail with file attachments.
- (b) WWW as a research tool and a collaborative work environment.
- (c) Library searches and research including archival documents, and commercial databases.

2) Review advanced word processing topics including:

- (a) Job layout and planning including page and document formatting and typographical controls.
- (b) Template Wizards, boilerplates, style sheets, and macros.
- (c) Digitized data and graphics transfer between applications and between computing platforms.

3) Research, design and construct multi-media presentations.

- (a) Story board development
- (b) Produce "Stand alone" presentations.

4) Defining the "Electronic Office/Workplace"

- (a) Integration of the electronic desktop including: telephone, fax, scanners, printers, voice/e-mail, and time management/scheduling.
- (b) Survey software, ie. Groupware applications, OCR and voice dictation systems.

5) Research project: *

**Utilizing tools such as spread sheets, word processors, graphics editors and World Wide Web browsers.*

- (a) Define the specifications for the hardware and software requirements, technical support, training, and associated costs to set up an "Electronic" office.

- (b) Evaluate and present an analysis of emerging computer software and hardware infrastructure and technologies.
 - (c) Develop a long and short range “Personal Technology Plan”.
 - (d) Create and present “Intelligence Reports” or assessments on emerging trends in hardware and software.
- 6) Create and publish World Wide Web (WWW) pages using HTML editors:
- (a) Produce a personal resume WWW page.
 - (b) Build a professional file WWW page. Include links to research and resources on such topics as: economics, hardware and software, ethical issues, case studies, and emerging technologies.

To New Topical Outline:

- 1) Hardware and Software basics overview
 - (a) Analysis of emerging technologies.
 - (b) Review of Microprocessor architectures.
 - (c) Survey of networking software and hardware.
 - (d) Review of operating systems.
- 2) Advanced Spreadsheets applications
 - (a) Critical numerical data analysis and iterations.
- 3) Desktop Publishing
 - (a) Integrating digital audio, still and full motion cameras, and text/ graphics scanners into publications.
- 4) Preparing professional WEB based presentations
 - (a) Web page authoring
 - (b) Crafting E-books
 - (c) Advanced HTML features
 - (d) Other markup languages
- 5) Collaborative Work Groups
 - (a) Video Conferencing
 - (b) Threaded discussion groups
 - (c) Groupware
- 6) Visual Basic front-end design
 - (a) Design of front-end and interface for data bases
- 7) Databases
 - (a) Database design
 - (b) SQL for database
 - (c) “Access” forms and reports
 - (d) Backend processing

- 8) Electronic Commerce
 - (a) E-Commerce and Electronic banking
 - (b) Providing customer support via the WEB

9) JavaScript

10) Information Security and Information Warfare

- 11) Other advanced topics
 - (a) Project Management tools
 - (b) Data Mining

Sponsor: Leigh Weiss Jerry Spencer, and the Computer Science Department

Rationale:

- a) Statement of “need” for such a change:
These changes reflect the current competencies needed to bring this course content in line with current technology and practice.
- b) Statement of curricular effect: None.

Results of consultation:

Internal to the Computer Science Department



Memorandum

To: Dean Jay Harper

CC: Jennifer Kay, CS Dept.

From: Maureen O'Halloran, Chair, LAS/Math-Science Curriculum Committee,
Dept. Chemistry and Physics, Bosshart, extension 3525

Date: November 30, 1999

Re: Approval computer science course changes.

Proposals SCC numbers 718 and 719 were approved at the Nov 30 1999 meeting of the college curriculum committee (LAS/Math-Science). The curricular need for the changes were justified.

Both proposals indicated that resources were not adequate to meet the needs of the courses. Both proposals indicated that number of faculty were not adequate. Proposal 718 (which increased the credit hours of Data Structures and Algorithms by adding a laboratory component) also indicated that sufficient computer teaching labs are not available to meet the existing demand.

Since the proposal was signed at the Dean's level we did not feel that it was within our purview to question the availability of resources as long as the curricular need was documented and Department was willing to attempt to cope. The proposals were therefore approved with the added comment: "Faculty and computer lab resources need to be provided."