

Rowan University
Computer Science Department

Proposal: Minor Change to the Computer Science Specializations Requirements

1. Details

a. Change Requested

We request approval for the following two changes to the Computer Science Specializations requirements.

First change: Update the course list in those specifications affected by new courses and deleted courses in the computer science curriculum. Specifically,

- remove 0701.205 Computer Laboratory Techniques from the Information Technology specialization and replace it with 0704.430 Database Systems: Theory and Programming; and
- add 0706.415 Wireless Networks, Protocols, and Applications to the Network and Operating Systems specialization.

From

networking and operating systems	Operating Systems, 0704.390 Data Communications and Networking, 0706.410 System Programming and Operating System Internals, 0704.392 Advanced Computer Architecture, 0706.412 Principles of Digital Computers, 0706.310
information technology	Computer Laboratory Techniques, 0701.205 Web Programming, 0704.305 Principles Software Engineering, 0707.321 Operating Systems, 0704.390 Data Communications and Networking, 0706.410

To

Networking and Operating Systems	Operating Systems, 0704.390 Data Communications and Networking, 0706.410 System Programming and Operating System Internals, 0704.392 Advanced Computer Architecture, 0706.412 Wireless Networks, Protocols, and Applications, 0706.415
Information Technology	Web Programming, 0704.305 Principles Software Engineering, 0707.321 Operating Systems, 0704.390 Database Systems: Theory and Programming, 0704.430 Data Communications and Networking, 0706.410

Second change. Currently no mention is made of Independent Study courses in the Specializations document. We request approval to add a sentence to the last paragraph of the “Structure” section.

From

The following table specifies the courses making up each specialization. To obtain one of these specializations, a student must take four or more courses from the specialization’s list.

To

The following table specifies the courses making up each specialization. To obtain one of these specializations, a student must take four or more courses from the specialization’s list. An Independent Study 0701.400 course in the area of a specialization will count as a course in that specialization if approved by the student’s advisor. The following limitations apply.

- An Independent Study course used by a student to satisfy the requirements of a particular specialization must be 3.0 semester hours or less.
- At most one Independent Study course may be used by a student to satisfy the requirements of any particular specialization.
- A particular Independent Study course may be used at most once by a student to satisfy the requirements of a specialization.
- A student may satisfy the requirements of at most two specializations with Independent Study courses.

b. Sponsor

Stephen J. Hartley, Chair, and members of the Computer Science Department Curriculum Committee.

2. Rationale

a. Need for the Change

First change. Effective with the fall 2003 semester, the Computer Laboratory Techniques course will not be part of the curriculum for computer science majors and minors. Therefore, it should be removed from the specializations document.

As new courses in the computer science curriculum are approved, we will request approval to add those new courses to the appropriate specialization, if any. The Database and Wireless Networks courses are recent additions to the computer science course offerings and belong in the Information Technology specialization and Networking and Operating Systems specialization, respectively.

Second change. Computer science faculty members offer independent study courses from time to time to supplement the existing set of courses taught on an ongoing basis. If such an independent study course covers an area of study that is appropriate for one of the specializations, then a student taking the independent study course and striving to complete that specialization should be allowed to include the independent study course, subject to approval by the student’s advisor.

b. Curricular Effect

Both of these changes will increase the flexibility of the specializations requirements and will enhance the attractiveness to students of new and independent study courses in the computer science curriculum.

3. Results of Consultation

We solicited letters of consultation from Management Information Systems, Mathematics, and Electrical/Computer Engineering. Received letters are attached.

From hartley Tue Jul 29 14:56:25 2003
To: czochor@rowan.edu, hamilton@rowan.edu, head@rowan.edu
Subject: Letters of conculatation for two proposals

The Computer Science department will be submitting the following two curriculum proposals this October and we solicit letters of consultation from you. Both proposals are available on the Web as PDF files. Please let me know if you have trouble accessing the documents or have any questions. Thanks for your help.

Minor curricular change to the specializations requirements:

<http://users.rowan.edu/~hartley/changeSpecializations.pdf>

New course proposal, Concurrent Programming:

<http://users.rowan.edu/~hartley/concProgNewCourse.pdf>

From hamilton@rowan.edu Tue Jul 29 15:08:23 2003
Date: Tue, 29 Jul 2003 15:08:06 -0400
From: "Diane Hamilton" <hamilton@rowan.edu>
To: <hartley@elvis.rowan.edu>
Subject: Re: Letters of conculatation for two proposals

Steve,

Let me know if you need a letter other than this email. I have looked at the curriculum changes and these changes will not affect the MIS program in any way. Therefore, we have no problems with these proposed changes.

Diane Hamilton, Ph.D.
Professor of MIS
856-256-4760 (phone)
856-256-4439 (fax)

From Czochor@rowan.edu Tue Jul 29 16:23:26 2003
Date: Tue, 29 Jul 2003 16:23:09 -0400
From: "Ronald Czochor" <Czochor@rowan.edu>
To: <hartley@elvis.rowan.edu>
Subject: Re: Letters of conculatation for two proposals

Stephen,

Thank you for the opportunity to comment on your curriculum proposals.

With respect to the changes in the Specializations, I have no comment other than to say I support it.

Ron Czochor, Chairman

revised January 12, 2004

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Rowan University

MEMORANDUM

DATE: 8/5/03

TO: Stephen J. Hartley, Chair
Curriculum Committee
Department of Computer Science

FROM: Linda M. Head, Acting Chair
Electrical and Computer Engineering

RE: Minor Change to the Computer Science Specializations Requirements

The Electrical and Computer Engineering program supports the Minor Change to the Computer Science Specializations Requirements presented to the University Curriculum Committee, Fall 2003. These changes do not directly affect Electrical and Computer Engineering majors and would only impact those ECE majors who are also completing a separate degree in Computer Science.