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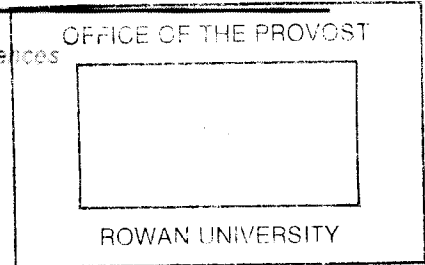
Submission Deadlines: Fall - October 10, 2006 Spring - February 13, 2007

TITLE MINOR CHANGE TO PRINCIPLES OF SOFTWARE ENGINEERING COU...

Sponsor(s) ADRIAN RUSC e-mail: RUSC@ROWAN.EDU

DEPARTMENT COMPUTER SCIENCE College LIBERAL ARTS AND SCIENCES

- If LAS check: History/Humanities, Social/Behavioral Sciences, Math Science, UNDERGRADUATE, GRADUATE, New non-gen-ed, Major, Short-Term non-gen-ed, Minor curricular changes, Existing non-gen-ed course, Non-gen-ed degree requirements, Major, Minor, specialization, concentration, track, certificate program



Signatures Required: representing approval before submission to Office of the Senate

Department Chair, Department CURRICULUM Chair, Academic DEAN with signatures and dates

COLLEGE CURRICULUM COMMITTEE Open meeting Date, Approved, Not Approved

Signature College Curriculum Chair, Signature SENATE CURRICULUM CHAIR with date

Comments

Signature Executive Vice President/Provost ALIA HOUSHMAND with date

Signature REGISTRAR, Date, Course Description Received & Approved

Notification Forward: SOC CHAIR, IR, CAP, Registrar, Academic Dean, Department Chair, Student Affairs, Other

sdzt: 4-25-07 Imtl: 4-19-07

Proposal: Minor Change to the Computer Science Principle of Software Engineering Course (undergraduate)

1. Details

a. Changes Requested

We request approval for the following minor changes to the Computer Science Principles of Software Engineering course.

- Catalog changes
 - change the course name for CS 07.321, Principles of Software Engineering, to Software Engineering I
 - change the course description for CS 07.321, Principles of Software Engineering,
from
An introduction to the discipline of Software Engineering. Students will explore the major phases of the Software Lifecycle, including analysis, specification, design, implementation and testing. Techniques for creating documentation and using software development tools will be presented. Students will gain experience in these areas by working in teams on mini-projects.
to
An introduction to the discipline of Software Engineering. Students will explore the major phases of the Software Lifecycle, including analysis, specification, design, implementation, and testing. Techniques for creating documentation and using software development tools will be presented. Students will gain experience in these areas by working in teams to develop a software system. Proficiency in programming is expected of the students entering this course.
- Prerequisites change for CS 07.321, Principles of Software Engineering from (CS 04.222 or ECE 09.242, CMS 06.202, STAT 02.360) to (CS 04.222 or CS 04.225, CMS 06.202 or ENGR 01.202, CMS 01.112 or ENGR 01.201)

b. Sponsor

Adrian Rusu

2. Rationale

a. Need for the Changes

Principles of Software Engineering has been taught each semester for the past couple of years. The catalog name and description do not reflect the way topics are really taught in this course and therefore need to be updated. In the current format, STAT 02.360: Introduction to Probability and Statistics, is not needed for a student to be successful in the course. In the current format, students' deliverables (documentation) typically are being reviewed by outside-of-class "customers", therefore an advanced college writing course, CMS 01.112: College Composition II, needs to be passed prior to the enrollment in the software engineering course. Prerequisite CMS 01.112, is already the prerequisite of another prerequisite, CMS 06.202: Public Speaking, for this course, but it is added to the list for emphasis purposes. Electrical and Computer Engineering students cover College Composition II concepts in ENGR 01.201: Sophomore Clinic I, and Public Speaking in ENGR 01.202: Sophomore Clinic II. Hence, to allow them to register for the course, these alternatives need to be added. As pointed out in the Engineering consultation, CS 04.225: Data Structures for Engineers is a more appropriate prerequisite than the existing prerequisite, ECE 09.242: Digital II: Microprocesors.

b. Curricular Effect

The catalog description will reflect the way topics are actually being covered in this course.

3. Results of Consultation

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

4. Catalog Description

CS 07.321

3 s.h.

Software Engineering I

(Prerequisites: CS 04.222 or CS 04.225, CMS 06.202 or ENGR 01.202, CMS 01.112 or ENGR 01.201)

An introduction to the discipline of Software Engineering. Students will explore the major phases of the Software Lifecycle, including analysis, specification, design, implementation, and testing. Techniques for creating documentation and using software development tools will be presented. Students will gain experience in these areas by working in teams to develop a software system. Proficiency in programming is expected of the students entering this course.

Hello Adrian,

The MIS faculty support the curriculum proposals you asked us to review. Specifically, we support your minor changes in undergraduate and graduate graphics, undergraduate and graduate software engineering as well as the software engineering lab. Thank you for the opportunity to review your proposals.

Sincerely,
diane hamilton

diane hamilton, ph.d.
Professor of MIS
William G. Rohrer College of Business
Rowan University
201 Mullica Hill Rd
Glassboro, NJ 08028

office: 856-256-4760

From: Rusu, Adrian S.
Sent: Tue 2/6/2007 11:40 AM
To: Czochor, Ronald; Hamilton, Diane; Head, Linda M.
Subject: letters of consultation

Attached are six Computer Science curriculum proposals for the spring 2007 cycle. We are asking for letters of consultation. Thanks for your help.

Adrian Rusu

Adrian,

We have reviewed your six proposals and since they are primarily name changes and changes in catalog descriptions, we have no comment with respect to these types of changes. The prerequisite change for the undergraduate software engineering course that suggests removing Intro to Probability and Statistics I as a prerequisite is an understandable change and is very timely since we are proposing a new course for CS students to replace this course anyway.

Ronald J. Czochor, Chairman
Mathematics Department
Rowan University
Phone: 856.256.4845
Fac: 856.256.4816

From: Rusu, Adrian S.
Sent: Tuesday, February 06, 2007 11:41 AM
To: Czochor, Ronald; Hamilton, Diane; Head, Linda M.
Subject: letters of consultation

Attached are six Computer Science curriculum proposals for the spring 2007 cycle. We are asking for letters of consultation. Thanks for your help.

Adrian Rusu

MEMORANDUM

DATE: 2/12/2007
TO: Adrian Rusu, Computer Science Department
FROM: Linda Head, Electrical and Computer Engineering
RE: Consult for: CS 07.321

The Electrical and Computer Engineering program endorses the Computer Science curriculum proposal titled, "Proposal: Minor Change to the Computer Science Principles of Software Engineering Course (undergraduate) - CS 07.321" This course is appropriate for our students who wish to pursue topics in Software Engineering and will meet the requirement in our undergraduate curriculum, CpE Elective, which may include approved Computer Science Electives.

One note regarding the prerequisites: I believe that the alternative to Data Structures and Algorithms, CS 04.222, should be Data Structures and Algorithms for Engineers rather than ECE 09.242 which is Digital II, Microprocessors.