

Rowan University  
Computer Science Department

## Proposal: Minor Change to the Computer Science 04.113 Course Description

### 1. Details

#### a. Changes Requested

We request approval for the following minor change to the Computer Science course descriptions.

1. Change the catalog course description for CS 04.113, Introduction to Object-Oriented Programming, to reflect the experiences gained teaching this course every semester since fall 2003.

Specifically, change the course description for CS 04.113, Introduction to Object-Oriented Programming, **from**

Introduces the fundamental concepts of programming from an object-oriented perspective. Topics include simple data types, control structures, an introduction to array and string data structures and algorithms, as well as debugging techniques and the social implications of computing. The course emphasizes modern software engineering principles and developing fundamental programming skills in the context of a language that supports the object-oriented paradigm. Includes basic UNIX commands and editing.

**to**

Introduces the fundamental concepts of programming from an object-oriented perspective. Topics are drawn from classes and objects, abstraction, encapsulation, data types, calling methods and passing parameters, decisions, loops, arrays and collections, documentation, testing and debugging, exceptions, design issues, inheritance, and polymorphic variables and methods. The course emphasizes modern software engineering and design principles and developing fundamental programming skills in the context of a language that supports the object-oriented paradigm.

#### b. Sponsor

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

### 2. Rationale

#### a. Need for the Change

Introduction to Object-Oriented Programming has been taught each semester since fall 2003. The catalog description needs to be updated to reflect the experiences gained teaching this course multiple times.

We found there was little, if any, time to cover social implications of computing in this course. Therefore, we propose deleting social implications of computing from the course description. These topics are already covered in depth in INTR 01.265, Computers and Society, which is required for computer science majors.

We also found little, if any, time to cover a second operating system/programming platform, such as UNIX, in Introduction to Object-Oriented Programming. We are proposing to cover that only in Object-Oriented Programming and Data Abstraction.

Lastly, we found the need to make the topics covered a little more detailed and specific in order to facilitate the advising of freshmen and transfer students who had had a previous object-oriented programming course so that they are guided to take the proper course in the Computer Science curriculum.

## b. Curricular Effect

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

Even after removing social implications of computing from Introduction to Object-Oriented Programming, computer science majors will still learn about the social implications of computing in INTR 01.265, Computers and Society.

Computer science majors will still be exposed to a second operating system/programming platform.

Freshmen and transfer students will be more accurately advised as to the best first programming course to take at Rowan.

## 3. Results of Consultation

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

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From hartley Fri Jan 19 12:37:31 2007
To: czochor@rowan.edu, hamilton@rowan.edu, schmalzel@rowan.edu
Subject: letters of consultation for two curriculum proposals
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Here are two Computer Science curriculum proposals for the spring 2007 cycle. We are asking for letters of consultation. Thanks for your help.

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http://elvis.rowan.edu/~hartley/Curriculum/200702/minorChangeIOOP-OOPDA.pdf
http://elvis.rowan.edu/~hartley/Curriculum/200702/minorChangeJ00P.pdf
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From hamilton@rowan.edu Fri Jan 19 14:35:06 2007
Date: Fri, 19 Jan 2007 13:08:24 -0500
From: "Hamilton, Diane" <hamilton@rowan.edu>
To: Stephen J. Hartley <hartley@elvis.rowan.edu>
Subject: RE: letters of consultation for two curriculum proposals
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Hi Stephen,

I have reviewed your two minor curriculum proposals, as requested in your email below, and from the perspective of the MIS faculty, we have no concerns with the changes that you propose, and believe that making the catalog descriptions more accurate is a great thing to do. Thank you for the opportunity to review them.

Sincerely,

Diane Hamilton  
Professor of MIS

MEMORANDUM

DATE: 2/5/2007

TO: Steve Hartley, Computer Science Department

FROM: Linda Head, Electrical and Computer Engineering

RE: Consult for: Proposal: Minor Change to the Computer Science  
Course Descriptions

The Electrical and Computer Engineering program is pleased to endorse the Computer Science curriculum proposal titled, "Proposal: Minor Change to the Computer Science Course Descriptions" This change will not impact any aspect of the interaction of Electrical and Computer Engineering students taking courses from the Computer Science Department.

From Czochor@rowan.edu Mon Feb 5 17:26:21 2007

Date: Mon, 5 Feb 2007 16:25:21 -0500

From: "Czochor, Ronald" <Czochor@rowan.edu>

To: Stephen J. Hartley <hartley@elvis.rowan.edu>

Subject: RE: letters of consultation for two curriculum proposals

Steve,

The Math Department has reviewed your two minor curriculum changes with respect to catalog revisions and credit change. We have no concerns with respect to these proposals. The revisions to the catalog should be helpful in fully describing these courses and their value in subsequent courses. We have no comment on the increase in credit hours.

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