



PROCESS A NON-GENERAL EDUCATION CURRICULUM PROPOSAL

SCC #04-05- 3749

October 1, 2004 to be implemented Fall 2005 ~ February 1, 2005 to be implemented Spring 2005

PROPOSAL TITLE: ENTERPRISE COMPUTING II

Sponsors: STEPHEN HARTLEY Email: hartley@psu.edu Ext: 3895
JOHN ROBINSON Email: robinson@psu.edu Ext: 3687

DEPARTMENT: COMPUTER SCIENCE

COLLEGE: CLAS

If Liberal Arts & Sciences CHECK: History/Humanities Math/Sciences Social/Behavioral Sciences
 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

THE FOLLOWING SIGNATURES REPRESENT APPROVAL

Department Chair: [Signature] Date: 1-31-05
 Department Curriculum Chair: [Signature] Date: 1-31-2005
 Academic Dean: [Signature] Date: 2-1-05

COLLEGE CURRICULUM COMMITTEE

OPEN HEARING Date: 3/21/2005 Approved: Not Approved:
 COLLEGE CURR. CULUM CHAIR: [Signature]
 Senate Curriculum Chair Signature: [Signature] Date Senate Announcement: 3/28/05
 Comments: _____

EXECUTIVE VICE PRESIDENT/PROVOST Signature: [Signature] Date: 4/14/05

Approved Not Approved

Date: 4/22/05 Registrar: [Signature] Course Description Received: Approved: Registrar's Office: 0701147
 Registrar's Office: [Signature]

NOTIFICATION FORWARD

SCC Chair Academic Dean Department Chair Registrar SAC
 Student Affairs Others

4/22/05

DIB 4/22/05

Rowan University
**CURRICULUM PROPOSAL
 LIBRARY RESOURCE FORM**

The purpose of this form is to provide a channel of communication between the library and faculty changing and designing new courses/programs. The information will be used to assess the resources available in the library, and to identify resources the library should acquire to support the course program. The information will also provide rationale for institutional support for library acquisitions.

This form should be completed in a coordinated effort between the course sponsor(s) and the academic department (a sponsorian). **THIS FORM MUST BE COMPLETED FOR ALL CURRICULUM PROPOSALS.**

- The sponsor(s) complete parts A & B. If a class stance is required to complete parts A & B, please notify the liaison librarian.
- Forward this form to the librarian who will complete parts C, D & E.

This form must be completed and attached to the original curriculum proposal before being approved by the Senate Curriculum Committee

A. College CLAS Department: COMPUTER SCIENCE
 Proposed by: STEPHEN HARTLEY Date: 1/31/05
JOHN ROBINSON
 Course Title: ENTERPRISE COMPUTING II
 Anticipated Date for Course/Program Offering: SPRING 2006

B. List specific resources that should be acquired to support this course

CURRENT RESOURCES ARE ADEQUATE

C. Describe the resources available in the library to support this course/program, including reference, monographic, electronic databases, audio-visual materials, etc. A summary statement is sufficient.

CURRENT RESOURCES ARE ADEQUATE

D. List key periodicals available in the library to support this course/program

N/A

E. Librarian comments and recommendations

Name: LIBRARIAN JOHNSON [Signature] Librarian Signature _____

New Course Proposal:

Enterprise Computing II

1. Details

- a. Course Title:** Enterprise Computing II
- b. Sponsor:** Stephen Hartley, John Robinson, Computer Science Department, Rowan University.
- c. Credit hours:** 3
- d. Course Level:** Freshmen and sophomores (0704.1xx HEGIS number is recommended).
- e. Prerequisites:** Enterprise Computing I (0701.1xx).
- f. Suggested Time and Scale of Implementation:** First offering Spring 2006, then every Spring thereafter.

2. Curricular Effect

The proposed course will become available as non-general education course. This course is designed to extend the material presented in Enterprise Computing I (0704.1xx) by applying object oriented design and software engineering principles to develop a small scale enterprise system. This course will acquaint students with advanced features and dynamic data structures. Students will also understand basic graphical programming, event driven programs, exception handling and web programming. Currently, the course will be presented using VB.Net as the core language, though the language may change as newer languages become more appropriate.

- **Offerings:** No class will be dropped as a result of this course; however fewer sections of Computer Science and Programming will be needed as a result of the addition of this course.
- **Adequacy of Resources:** The current staff of the Computer Science department and available computing resources are adequate to implement the proposed course.
- **Recommended Library Resources:** Current library resources are adequate.
- **Short-term Evaluation:** Not yet available.

3. Rationale

Today, computers are becoming more and more intertwined in our daily lives. We depend upon computers and software to do our banking, taxes, communication with friends, purchasing goods and services as well as help us with our educational needs. As we depend more and more upon this technology the need for skilled personnel that understand the software and hardware running on computers and computer systems will increase. The proposed course will be offered to introduce the students to the concepts and skills needed to understand and implement the software and systems used in business and industry.

4. Essence of the Course

- a. **Objectives in Relation to Student Outcomes:** At the end of the course the successful students will gain understanding of following:
 - Advanced data structures
 - Graphical and event driven programming
 - Web programming
 - Apply object oriented design and software engineering principle to system design
 - Design, implement, test and debug small scale enterprise systems
- b. **Topical Outline/Content:**
 - ***Advanced Data Structures:***
 - Dynamic data structures
 - ***Introduction to graphical and event driven programming:***
 - Graphical User Interface Components
 - Exception handling
 - Event driven programming
 - ***Object Oriented System Design:***
 - System specification
 - System design
 - System implementation
 - System testing and debugging
 - ***Introduction Enterprise Development Environments:***
- c. **Evaluation of students and grading procedure:** Students will be evaluated by traditional methods such as homework assignments, quizzes, programming projects, midterms, and a final.
- d. **Course Evaluation:** This course will be evaluated through student surveys and will be part of the Computer Science Department's accreditation process.

5. Results of Consultation

The MIS and ECE departments were consulted

Catalog Description

0704.1xx 3 s.h.

Enterprise Computing II

Prerequisites: Enterprise Computing I (0701.1xx).

This course is designed to extend the material presented in Enterprise Computing I (0704.1xx) by applying object oriented design and software engineering principles to develop a small scale enterprise system. This course will acquaint students with advanced features and data structures. Students will also understand basic graphical programming, event driven programs, exception handling and web programming.

DB
4/29/05



Mathematics Department

TO: Sponsors of Enterprise Computing I and II (Stephen Hartley and John Robinson)

FROM: Ronald J. Czochor, Chairman *Ronald J Czochor*
Mathematics Dept.

DATE: February 4, 2005

RE: Consultation on Proposal for new courses entitled *Enterprise Computing I and II*

The Mathematics Department has reviewed these two courses. We have no issue with the second course, so we will limit our comments to the first course.

We have a concern with respect to the prerequisites. It makes no sense to us that the mathematics course prerequisites should be either *Intermediate Algebra* or *Calculus: Techniques and Applications*. One course is essentially a developmental course and the other is a college level course. Perhaps the sponsors wanted to make sure the students had a minimum of one appropriate college level mathematics course, but wanted to make it easy for a freshman who has only taken calculus to enroll. If this were the case the two courses that should have been listed should be *College Algebra* or *Calculus: Techniques and Applications*.

We also have no problem with this course qualifying as a computer competency course under the Math and Science Bank of General Education, but would not accept it as a Mathematics course.

Robinson, John H.

m: Daniel J. McFarland [mcfarland@rowan.edu]
nt: Tuesday, January 11, 2005 11:39 AM
To: hartley@elvis.rowan.edu; kay@elvis.rowan.edu; czochor@rowan.edu; hamilton@rowan.edu;
mcfarland@rowan.edu; Robinson, John H.; Schmalzel@rowan.edu
Subject: Re: Enterprise Computing II

Dear John,

The MIS Faculty support your new course proposal for Enterprise Computing II.

Thank you, Dan.

Daniel J. McFarland, Ph.D.
Associate Professor, MIS
Rowan University
201 Mullica Hill Road
Glassboro, NJ 08028
Tel. 856.256.5426 Fax 856.256.4439

>>> "Robinson, John H." <robinsonj@rowan.edu> 01/11/05 09:44 AM >>>
Hello All

We have written a new course proposal entitled "Enterprise Computing II". It was written in response to a request from MIS as part of their ABET accreditation. I would like to request letters of consultation from Math, MIS and ECE on the proposed course. We need to wrap the up for submission before the Feb 11th deadline.

Thank You

in

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John Robinson
Instructor/UNIX Systems Administrator
Computer Science Department
Rowan University
201 Mullica Hill Road
Glassboro, NJ 08028-1701
Phone: 856-256-4805 ext. 3687
Fax: 856-256-4741
Email: robinsonj@rowan.edu
HTTP: <http://elvis.rowan.edu/~robinson>



Electrical and Computer Engineering

January 30, 2005

Professor John Robinson
Computer Science Department
Rowan University
Glassboro, NJ 08028

Re: Enterprise Computing II

Dear Professor Robinson:

The Electrical & Computer Engineering department has received your course proposal entitled "Enterprise Computing II". We have reviewed the rationale, curricular effect and proposed course content and are pleased to support this course offering.

Best wishes,

Shreekanth Mandayam, Ph.D.
Associate Professor
ECE Curriculum Committee Chair

Cc: Dr. Jennifer Kay, Chair, CS

Mosto, Patricia

From: Robinson, John H.
Date: Sunday, April 03, 2005 3:37 PM
To: Mosto, Patricia; Hartley, Stephen J.
Cc: 'Jennifer Kay'; Milou, Eric; Faison, Christy
Subject: RE: Course Proposals



Curriculum.txt (5 KB)



consultation on enterprisecomp...



ECE_Consult_BPI&I BusinessProgramI-&consultation.htm (7 I.pdf (77 KB)...



16.pdf (513 ...



KB)



ECI.doc (45 KB)

Hi Pat

I know this is slightly confusing and I hope I can explain it through the sequence of events I am going to describe and with the documents attached.

When we originally wrote the course proposal it was titled Business Programming I (BPI). After the first senate hearing the consensus of the committee was to change the name to Enterprise Computing I (ECI) and make it a gen ed course. The attachment Curriculum.txt contains the recommendations of the Senate.

BPI was rewritten as ECI and math was consulted. MIS and ECE were not re-consulted on BPI, now ECI, because the proposal itself did not change, only the name and a minor pre-req change. The attachments ECE_Consult_BPI&II.pdf and consultation.htm are the original consultations from MIS and ECE. The attachment consultation_on_enterprisecomp.DOC is the Math consultation for ECI & ECII.

Business Programming II (BP2) was re-submitted as Enterprise Computing II (EC2), a non-ed course, so it didn't go to the senate.

The attachment BusinessProgramI-816.pdf is the original proposal turned into the senate and it should be replaced with the ECI proposal in attachment ECI.doc

There was a typo in the pre-reqs for ECI and that was also corrected in the ECI.doc attachment. I think that covers everything, the only other issue is whether or not you wish new letters of consultation from MIS and ECE or if the original letters sufficient.

Let me know how you wish me to proceed.

If I need anything else or if you have any further questions or need further clarification, please don't hesitate to contact me.

Thank you,

John

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John Robinson
Instructor/UNIX Systems Administrator
Computer Science Department
Rowan University
201 Mullica Hill Road
Glassboro, NJ 08028-1701
Phone: 856-256-4805 ext. 3687
Fax: 856-256-4741
Email: robinsonj@rowan.edu
HTTP: http://elvis.rowan.edu/~robinson

From: Mosto, Patricia
Sent: Saturday, April 02, 2005 12:53 PM
To: Robinson, John H.; Hartley, Stephen J.
Cc: Faison, Christy; Mosto, Patricia; Milou, Eric

Subject: Course Proposals

Hi John and Stephen:

I am in the process of reviewing proposals for your department and have a few areas that need clarification:

SCC 04-05-816 - In the cover page, the course title reads Enterprise Programming I and in the first page read Enterprise Computing I. Which is the correct name? Also, the prerequisites in the Course Details e.), do not match with the prerequisites in the Catalogue Description. Which is the correct one?. The letters of consultation from Electrical and Computer Engineering, as well as MIS refers to a course called Business Programming I, not Enterprise Programming I or Enterprise Computing I. Please clarify the correct name of the course and attach the proper letters of consultation

Thanks

Pat

Dr. Patricia Mosto
Interim Associate Provost
Academic Affairs
Rowan University
e-mail: mosto@rowan.edu
phone: 856-256-4012
fax: 856-256-4435

"You don't have to go looking for love when it is just in front of you"

Mosto, Patricia

From: Robinson, John H.
Sent: Wednesday, April 06, 2005 8:39 AM
To: Mosto, Patricia
Cc: Hartley, Stephen J.; Faison, Christy; Milou, Eric
Subject: FW: Enterprise Computing I Course Proposal

Hi Pat

Here is the consultation response from MIS. I am still waiting for ECE's response. I will forward to you as soon as I receive it.

Thank you,

John

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John Robinson
Instructor/UNIX Systems Administrator
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From: McFarland, Daniel J.
Sent: Monday, April 04, 2005 10:24 AM
To: Robinson, John H.
Subject: RE: Enterprise Computing I Course Proposal

Dear John,

The Management and MIS department has received your course proposals entitled "Enterprise Computing I" and "Enterprise Computing II." We have carefully reviewed the content of these proposals and are pleased to support these course offerings.

Daniel J. McFarland, Ph.D.
Associate Professor, MIS
Rowan University
201 Mullica Hill Road, Glassboro, NJ 08028
Tel. 856.256.5426 ---- Fax 856.256.4439



Electrical and Computer Engineering

April 12, 2005

Professor John Robinson
Computer Science Department
Rowan University
Glassboro, NJ 08028

Re: Enterprise Computing I

Dear Professor Robinson:

The Electrical & Computer Engineering department has received your course proposals entitled "Enterprise Computing I." We have reviewed the rationale, curricular effect and proposed course content and are pleased to support this course offering.

Best wishes,

Shreekanth Mandayam, Ph.D.
Associate Professor
ECE Curriculum Committee Chair

Cc: Dr. Jennifer Kay, Chair, CS
Dr. John L. Schmalzel, Chair, ECE