

**Library Resource Form Required for New Non-Gen-Ed**

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

TITLE MINOR CHANGE TO COMPUTER GRAPHICS COURSE

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

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

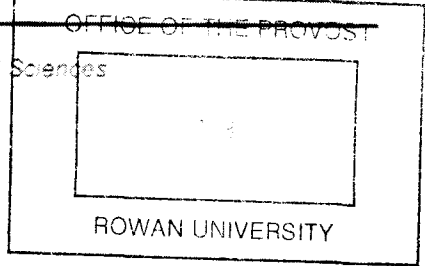
Minor curricular changes (fewer than three to

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 *[Signature]* Date 2/8/07  
Department CURRICULUM Chair *[Signature]* Date 2-8-07  
Academic DEAN *[Signature]* Date 2-14-07

COLLEGE CURRICULUM COMMITTEE  
Open Hearing Date 6/2/07  
Approved 5/3/07  
Not Approved

Signature: College Curriculum Chair *[Signature]*  
Signature: SENATE CURRICULUM CHAIR *[Signature]*  
Date 2/11/07

Comments \_\_\_\_\_  
Signature: Executive Vice President/Provost *[Signature]* **ALIA HOUSHMAND** 4/14/07  
Date 4/3/07  
Approved   
Not Approved

Signature REGISTRAR *[Signature]*  
Date 4/7/07 Course Description Received & Approved  
Heg's Taxonomy & Course # \_\_\_\_\_

Notification Forward  
 SCC CHAIR  Systems Dean  
 IR  Department Chair  
 CAP  Student Affairs  
 Registrar  Other

*sdzyl 4-25-07*  
*Imtl 4-19-07*

## **Proposal: Minor Change to the Computer Science Graphics Course (graduate)**

### **1. Details**

#### **a. Changes Requested**

We request approval for the following minor changes to the Computer Science Graphics course (graduate).

- Catalog changes
  - change the course name for CS 07.560, Advanced Computer Graphics, to Computer Graphics
  - change the course description for CS 07.560, Advanced Computer Graphics,  
from  
Students will study the use and implementation of graphics packages. Techniques and algorithms for implementing graphics systems will be covered. They include drawing of 2-D primitives; 2- and 3-D transformation and viewing; representing curves and surfaces; hidden line and surface removal; illumination and shading; and animation. Programming projects on writing graphics applications and implementing graphics algorithms will be assigned.  
to  
This is a graduate level course in Computer Graphics. Students will study the use and implementation of graphics packages. Techniques and algorithms for implementing graphics systems will be covered. They include drawing of 2-D primitives; 2- and 3-D transformation and viewing; representing curves and surfaces; hidden line and surface removal; illumination and shading. Substantial programming projects on writing graphics applications and implementing graphics algorithms will be assigned. Students are encouraged to devise new techniques, implement them, and determine their effectiveness. Students will be required to complete in-depth assignments involving conference or journal papers from the computer graphics literature.
- Prerequisites change for CS 07.560, Advanced Computer Graphics from (MATH 01.210, CS 04.315) to (MATH 01.210 or MATH 01.235, CS 07.340)

#### **b. Sponsor**

Adrian Rusu

## **2. Rationale**

### **a. Need for the Changes**

Advanced Computer Graphics is a graduate course introduced a couple of years ago but never offered. The catalog name and description do not reflect the way topics will really be taught in this course and therefore need to be updated. One of the current prerequisites, CS 04.315: Programming Languages, is no longer necessary for success in the class. Another prerequisite needs to be added, CS 07.340: Design and Analysis of Algorithms, in order to be successful in the class. Electrical and Computer Engineering students cover Linear Algebra concepts in MATH 01.235: Mathematics for Engineering Analysis II. Hence, to allow them to register for the course, this alternative to the existing MATH 01.210: Linear Algebra prerequisite needs to be added.

### **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 07.560

3 s.h.

##### **Computer Graphics**

(Prerequisites: MATH 01.210 or MATH 01.235, CS 07.340)

This is a graduate level course in Computer Graphics. Students will study the use and implementation of graphics packages. Techniques and algorithms for implementing graphics systems will be covered. They include drawing of 2-D primitives; 2- and 3-D transformation and viewing; representing curves and surfaces; hidden line and surface removal; illumination and shading. Substantial programming projects on writing graphics applications and implementing graphics algorithms will be assigned. Students are encouraged to devise new techniques, implement them, and determine their effectiveness. Students will be required to complete in-depth assignments involving conference or journal papers from the computer graphics literature.

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

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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

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**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 consultaiton. 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

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**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 07.560

The Electrical and Computer Engineering program endorses the Computer Science curriculum proposal titled, "Proposal: Minor Change to the Computer Science Graphics Course (graduate) - CS 07.560" This course is appropriate for our students who wish to pursue topics in Computer Graphics. Though, as with all coursework at the graduate level, consultation with the student's major advisor will be necessary for inclusion of this course in the requirements for the Master's in Engineering degree with emphasis in Electrical and Computer Engineering.