

2

**PROCESS A**

NON-GENERAL EDUCATION - CURRICULUM PROPOSAL

SCC #04-05- 104

OFFICE OF THE REGISTRAR  
DEC 22 2004  
RCM/601/100/100/100/100

LIBRARY RESOURCE FORM REQUIRED

Deadlines

October 2, 2004 to be implemented Fall 2005 - February 14, 2005 to be implemented Spring 2005

PROPOSAL TITLE: Prerequisite change to Physical Chemistry I

Sponsor's Robert Newland E-Mail newland@<sup>edu</sup>rown. Ext: 4502

E-Mail: \_\_\_\_\_ Ext: \_\_\_\_\_

DEPARTMENT: Chemistry and Biochemistry

COLLEGE: Liberal Arts & Sciences

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
- Minor curricular changes (fewer than three)
- Short-term non-gen-ed course
- 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: 9/20/04  
 Department Curriculum Chair: [Signature] Date: 9/25/04  
 Academic Dean: [Signature] Date: 10/5/04

COLLEGE CURRICULUM COMMITTEE

OPEN HEARING Date: SPRING Approved  Not Approved

COLLEGE CURRICULUM CHAIR [Signature]

Senate Curriculum Chair Signature [Signature] Date: Senate Announcement: 12/20/04

Comments \_\_\_\_\_

EXECUTIVE VICE PRESIDENT/PROVOST Signature: [Signature] Date: 1/3/05

Approved  Not Approved

Date: 1/10/05 REGISTRAR Course Description Received & Approved - Reg's Taxonomy & Course # \_\_\_\_\_

Registrar Signature: [Signature]

NOTIFICATION FORWARD

SCC Chair  Academic Dean  Department Chair  Registrar  IR  CAP  
 VP Student Affairs  Others

DB/B

## **Minor Curricular Change Proposal**

Prerequisite Changes for Physical Chemistry I (1908.400)

### **Details**

a. Change Requested

From = Prerequisite: 1701.131, 1902.201 or 1902.203.

To = Prerequisite: 1701.131, 1902.201 or 1902.203 or 0906.302

b. Sponsor: Robert Newland

### **Rationale**

a. Statement of "need" for such a change.

Chemistry and Chemical Engineering majors take this upper level course entitled Physical Chemistry I but each group comes to the course by a different pathway. Chemistry majors take Physics I & II (either 1902.200 & 1902.201 or 1902.202 & 1902.203) before taking Physical Chemistry I (1908.400) and engineers take only Physics I ahead of time. To ensure appropriate background the engineers should take Principles Chemical Processes II (0906.302) prior to enrolling in Physical Chemistry. This will ensure they have appropriate topics prior to taking this course.

b. Statement of curricular effect.

Chemical engineering majors will be better prepared to take this course by completing this new prerequisite. Chemistry majors will be unaffected.

### **Results of Consultation**

- a. The chemical engineering department has been consulted.
- b. Letter is attached.

**Campbell Library**  
Library Resource Form

College: Liberal Arts and Sciences (Chemistry & Biochemistry)

Proposed by: Dr. Robert Newland

Course Title: Prerequisite Changes for Physical Chemistry I

Anticipated Date for Course/Program Offering: Fall 2005

**Resources that should be acquired**

No additional resources are needed at this time.

**Resources available in Campbell Library**

To enhance our holdings in the sciences, as well as engineering, the library subscribes to approval plans to capture new titles, both from general academic publishers (trade/technical) and university presses. On average, these plans provide approximately 2,100 titles yearly, at a total annual cost of \$132,578 (not every title in the university press plan is related to science and technology).

**List key periodical resources**

Campbell Library is fortunate to have access to online journal databases in a large number of disciplines, including the sciences and engineering. Of specific value for this course proposal, we have:

- American Chemical Society Web Editions
- American Physical Society Journals
- Applied Science and Technology
- Biological and Agricultural Index
- General Science Full-Text
- SciFinder Scholar
- Science Direct (Elsevier).

Other online databases not listed also provide access to journals, many fulltext, in biology, chemistry, physics, and electrical engineering.

### **Librarian Remarks**

Given the library's commitment to the two approval plans described above, as well as to several of the major online journal databases, the library supports this prerequisite change.

A handwritten signature in black ink, appearing to read "Gregory C. Potter", written over a horizontal line.

Gregory C. Potter  
Liaison

10/01/04

**Subject: RE: Curriculum changes needing your support**

**Date:** Thursday, September 30, 2004 6:04 PM

**From:** Hesketh, Robert Paul <hesketh@rowan.edu>

**To:** "Newland, Robert" newland@rowan.edu

**Category:** Rowan

Minor Curricular Change Proposal

Prerequisite Changes for Physical Chemistry I (1908.400)

Details

a. Change Requested

From = Prerequisite: 1701.131, 1902.201 or 1902.203.

To = Prerequisite: 1701.131, 1902.201 or 1902.203 or 0906.302

The chemical engineering program believes that this prerequisite change is in the best interests of chemistry and chemical engineering faculty and students. We support this change.

=====

Robert P. Hesketh

-----Original Message-----

From: R Newland [mailto:newland@rowan.edu]

Sent: Thursday, September 16, 2004 9:13 AM

To: Hesketh, Robert Paul

Cc: Yun-Hwan Cha

Subject: Curriculum changes needing your support

Robert,

Attached are two curriculum changes we wish to submit in very early October.

Each requires a letter of consultation from you. We discussed these earlier and you were in support but a formal letter is required.

Thanks,  
Bob

Robert Newland, Ph.D.  
Chair, Chemistry & Biochemistry  
Rowan University  
201 Mullica Hill Rd.  
Glassboro, NJ 08028  
(856) 256-4502  
Fax (856) 256-4478  
newland@rowan.edu