



***DEADLINES:**

REGULAR COURSE PROPOSALS: OCTOBER 23, 1998 FOR FALL, 1999 AND FEBRUARY 19, 1999 FOR SPRING, 2000
 SHORT-TERM COURSE PROPOSALS: DECEMBER 11, 1998 FOR FALL, 1999 AND MARCH 26, 1999 FOR SPRING 2000

PROPOSAL TITLE: Changing the major Requirement for Chemistry Majors
SPONSOR/S: Dr. Cathy F. Yang
DEPARTMENT: Chemistry & Physics
 19LT. 34E

CHECK ALL THAT APPLY:
 UNDERGRADUATE GRADUATE

COLLEGE: LAS
 If LAS: History/Humanities
 Math/Sciences
 Social/Behavioral Sciences

* * * * *

TYPE OF PROPOSAL (Check ALL that Apply)

<input type="checkbox"/> General Education	<input type="checkbox"/> New Course (NOT Gen. Ed.)
<input type="checkbox"/> New Course in <input type="checkbox"/> Bank	<input type="checkbox"/> Name Change (Dept., School, Major)
<input type="checkbox"/> Existing course, Add To <input type="checkbox"/> Bank	<input checked="" type="checkbox"/> Changes in Degree Requirements
<input type="checkbox"/> Multicultural/Global Designation	<input type="checkbox"/> Changes Involve Gen. Ed. requirements
<input type="checkbox"/> Writing Intensive Designation	<input checked="" type="checkbox"/> Minor Changes to Existing Courses
<input type="checkbox"/> New Minor/Concentration/Specialization	<input checked="" type="checkbox"/> Course is NOT General Education
<input type="checkbox"/> New Major/Degree Program	<input type="checkbox"/> Course IS General Education
<input type="checkbox"/> Short Term Course Proposal	

DEPARTMENT
 (SIGNATURE INDICATES APPROVAL)

Robert J. ... 10/27/98 Robert J. ... 10/27/98
 DEPT. CURRICULUM CHAIR / DATE DEPT. CHAIRPERSON / DATE

COLLEGE CURRICULUM COMMITTEE
 DATE OF OPEN HEARING (if necessary) _____

APPROVED
 NOT APPROVED

COMMENTS:

Manay ... 3-2-99
 SIGNATURE DATE

ACADEMIC DEAN (& GRADUATE DEAN, for New Graduate Programs Only)

APPROVED
 NOT APPROVED

COMMENTS:

... ...
 SIGNATURE (Academic Dean) DATE

... ...
 SIGNATURE (Graduate Dean) DATE

UNIVERSITY CURRICULUM COMMITTEE

2/18/99 (College Level only)

APPROVED

NOT APPROVED

COMMENTS:

Janette Rivers
SIGNATURE

3/19/99
DATE

SENATE

Date announced at Senate 3/2/99

Voted upon at Senate: Approved Not Approved Date:

EXECUTIVE VICE PRESIDENT/PROVOST

APR 1 1999

APPROVED

NOT APPROVED If no, reasons are as follows:

STUDENT CREDIT HOURS _____ FACULTY LOAD HOURS _____ EQUALIZED CREDIT HOURS _____

OFFICIAL COPY & APPROVAL SHEET FILED (DATE): _____

DATE/SIGNATURE EXECUTIVE VICE PRESIDENT/PROVOST

CGM

REGISTRAR

DATE APPROVED COURSE DESCRIPTION RECEIVED _____

HEGIS TAXONOMY & COURSE NUMBER ASSIGNED degree change

DATE/SIGNATURE OF REGISTRAR Robert A. Kubat 4/8/99

NOTIFICATION FORWARD:

SENATE CURRICULUM COMMITTEE CHAIRPERSON

DEPARTMENT CHAIRPERSONS

ACADEMIC DEAN(S)

REGISTRAR

SPONSOR(S)

TM 4/27/99

Rowan University
Department of Chemistry and Physics

Minor Curricular Change
Changing the Major Requirement for Chemistry Majors

1. Details

- a. Change requested: Change Major Requirements
From: Elective 1907.348 Biochemistry
To: Required course 1907.348 Biochemistry (see attached curriculum change)

- b. Sponsor: Cathy F. Yang, Assistant Professor, Department of Chemistry and Physics

2. Rationale

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

Biochemistry has undergone an astounding expansion in the past decade that profoundly diffuses into chemistry disciplines. American Chemical Society (ACS) survey has found that biochemistry accounted for more than 50 % of all papers and patents in various fields of chemistry. The need to include some exposure to biochemistry in all approved chemistry programs has long been debated within the chemistry community. The Committee on Professional Training (CPT) of American Chemical Society (ACS) decided in the spring of 1997 that "ACS-approved curricula shall include the equivalent of three credit hours of biochemistry, which shall be required for student certification." Fundamentally, CPT decided that future professional chemists would be at a disadvantage if they knew no biochemistry. As a certified Chemistry program, we wish to implement this requirement for our majors immediately.

- b. Statement of curricular effect:

In the modified degree program, the Core courses increase from 45 SH to 49 SH; the Restricted Electives are reduced to 14 SH from 16 SH and the Free Electives will then be reduced to 10 SH. The total required hours remains at 123 s.h. This change will take place immediately. Current Chemistry/Physical Science majors will have a choice of degree programs. All chemistry majors choosing the New General Education Model (1998) will be advised to follow the new requirements.

3. Results of Consultation

Consultation has been internal to the Department; the Department has approved this change.

Current Degree Program

General Education 50 SH

COMMON CORE 45 SH

- Intro to Programming
- Chemistry I and II
- Organic Chemistry I and II
- Quantitative Analysis
- Physical Chemistry I and II
- Physical Chemistry Lab I and II
- Advanced Inorganic Chemistry
- Seminar I or Seminar II
- Instrumental Methods
- Co-op or Intro to Research

Restricted Electives 16 SH

Chosen with approval of advisor.
12 SH must be in upper level chemistry
and at least three of these courses must
have a Physical Chemistry prerequisite.

Free Electives 12 SH

Chosen with the help of advisor and with
consideration for future educational and
career plans.

TOTAL 123 SH

Proposed Degree Program

(changes in boldface)

General Education 50 SH

COMMON CORE **49 SH**

- Intro to Programming
- Chemistry I and II
- Organic Chemistry I and II
- Quantitative Analysis
- Physical Chemistry I and II
- Physical Chemistry Lab I and II
- **Biochemistry I**
- Advanced Inorganic Chemistry
- Seminar I or Seminar II
- Instrumental Methods
- Co-op or Intro to Research

Restricted Electives **14 SH**

Free Electives **10 SH**

TOTAL 123 SH