

CURRICULUM PROPOSAL FORM

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, 1998 FOR SPRING 2000

PROPOSAL TITLE: ADD PRE-REQUISITES FOR INTRODUCTION TO BIOCHEMISTRY 0414.440

SPONSOR/S: GREGORY HECHT

DEPARTMENT: BIOLOGICAL SCIENCES

0414.440

CHECK ALL THAT APPLY:

UNDERGRADUATE GRADUATE

COLLEGE: LAS

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

TYPE OF PROPOSAL (Check ALL that Apply)

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

DEPARTMENT
(SIGNATURE INDICATES APPROVAL)

[Signature] 10-13-98
DEPT. CURRICULUM CHAIR / DATE

[Signature] 10-13-98
DEPT. CHAIRPERSON / DATE

COLLEGE CURRICULUM COMMITTEE

DATE OF OPEN HEARING (if necessary) 11-24-98

APPROVED
 NOT APPROVED

COMMENTS:

[Signature] [Date]
SIGNATURE DATE

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

APPROVED
 NOT APPROVED

COMMENTS:

[Signature] [Date]
SIGNATURE (Academic Dean) DATE

[Signature] [Date]
SIGNATURE (Graduate Dean) DATE

UNIVERSITY CURRICULUM COMMITTEE

DATE OF OPEN HEARING (if necessary) 11-24-98 (college level only)

APPROVED

NOT APPROVED

COMMENTS:

Samanta Reed 11/30/99
SIGNATURE DATE

changes made

SENATE

Date announced at Senate 12-8-98

Voted upon at Senate: **Approved** **Not Approved** **Date:**

EXECUTIVE VICE PRESIDENT/PROVOST

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

Matthew 7/21/99

REGISTRAR

DATE APPROVED COURSE DESCRIPTION RECEIVED _____

HEGIS TAXONOMY & COURSE NUMBER ASSIGNED _____

DATE/SIGNATURE OF REGISTRAR Robert G. Kubat 7/26/99

NOTIFICATION FORWARD:

SENATE CURRICULUM COMMITTEE CHAIRPERSON

DEPARTMENT CHAIRPERSONS

ACADEMIC DEAN(S)

REGISTRAR

SPONSOR(S)

TM
8/16/99

Rowan University
Department of Biological Sciences

Minor Curricular Change:
Add Prerequisites for Introduction to Biochemistry

1. Details

a. Change requested:

Currently the only prerequisite for Introduction to Biochemistry 0414.440 is Organic Chemistry II 1907.201 (which in turn has the following pre-requisites: Chemistry I 1906.100, Chemistry II 1906.101, and Organic Chemistry I 1907.200).

We wish to add Biology I 0401.100 and Biology II 0401.101 as additional prerequisites for enrollment in Introduction to Biochemistry.

The new catalog description should read:

0414.440
Introduction to Biochemistry 3 s.h.
(Prerequisites: Biology I 0401.100, Biology II 0401.101, and Organic
Chemistry II 1907.201)
This course investigates chemical compounds and chemical reactions
which are of paramount importance to the functioning of biological
systems. It also examines the major metabolic pathways for energy
production and biosynthesis.

b. Sponsor: Gregory Hecht, Assistant Professor, Biological Sciences

2. Rationale

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

Biochemistry is an interdisciplinary subject area, and the additional prerequisites more accurately reflect the content of the course. Also, other undergraduate institutions list both biology and organic chemistry prerequisites for their biochemistry courses. Thus, the addition of Biology I and Biology II to the prerequisite list should be considered to be "overdue" rather than "unusual."

b. Statement of curricular effect:

This change is expected to have little or no impact on students:

- (i) The additional prerequisites do not reflect a change in course content. Instead, they reflect content that has always been present in the course.
- (ii) To the best of our knowledge, no student who has not completed Biology I or Biology II has ever attempted to enroll in Introduction to Biochemistry. However, under the current prerequisites, any student who attempted to enroll in Introduction to Biochemistry without having completed Biology I and Biology II would have to be admitted into the course. Given the rigorous (note the "400

level" HEGIS number) and interdisciplinary nature of the course, to do so would not be in that student's best interests. The change proposed here would prevent this problem from occurring.

- (iii) It is the understanding of the Biological Sciences Department that currently students are not permitted to apply Introduction to Biochemistry 0414.440 towards a Chemistry major or a Chemistry minor. Thus, we anticipate that these additional prerequisites will not impact the B.S. Chemistry or Chemistry minor programs. (Nevertheless, we have elected to consult with the Chemistry & Physics Department; see below.)

Therefore, this curricular change primarily serves a "housekeeping" function.

Introduction to Biochemistry 0414.440 is offered concurrently with a graduate course, Biochemistry 0414.540. This graduate course has the same prerequisites as Introduction to Biochemistry. A second proposal submitted simultaneously with this one seeks to add Biology I and Biology II as prerequisites for that course.

3. Results of consultation:

Consultation internal to the department was conducted. The changes proposed here were initiated and sponsored by the instructor who teaches the course.

The Chemistry & Physics Department was also consulted.

The old catalog description currently reads:

0414.440

Introduction to Biochemistry

3 s.h.

(Prerequisite: Organic Chemistry II 1907.201)

This course investigates chemical compounds and chemical reactions which are of paramount importance to the functioning of biological systems. It also examines the major metabolic pathways for energy production and biosynthesis.

The new catalog description should read:

0414.440

Introduction to Biochemistry

3 s.h.

(Prerequisites: Biology I 0401.100, Biology II 0401.101, and Organic Chemistry II 1907.201)

This course investigates chemical compounds and chemical reactions which are of paramount importance to the functioning of biological systems. It also examines the major metabolic pathways for energy production and biosynthesis.