

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, 1999 FOR SPRING 2000

PROPOSAL TITLE: ADD PREREQUISITES FOR BIOCHEMISTRY C414.540

SPONSOR/S: GREGORY HECHT

DEPARTMENT: BIOLOGICAL SCIENCES

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 _____ Bank	<input type="checkbox"/> Name Change (Dept., School, Major)
<input type="checkbox"/> Existing course, Add To _____ Bank	<input 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)

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

James de Neels 6/30/99
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 W. Matthew 7/21/99

REGISTRAR

DATE APPROVED COURSE DESCRIPTION RECEIVED _____

HEGIS TAXONOMY & COURSE NUMBER ASSIGNED _____

DATE/SIGNATURE OF REGISTRAR Robert A. Kubit 7/26/99

NOTIFICATION FORWARD:

SENATE CURRICULUM COMMITTEE CHAIRPERSON

DEPARTMENT CHAIRPERSONS

ACADEMIC DEAN(S)

REGISTRAR

SPONSOR(S)

TAM
8/16/99

Rowan University
Department of Biological Sciences

Minor Curricular Change:
Add Prerequisites for Biochemistry

1. Details

a. Change requested:

Currently the only prerequisite for the graduate course Biochemistry 0414.540 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 Biochemistry 0414.540.

The new catalog description should read:

0414.540

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 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 Biochemistry 0414.540. However, under the current prerequisites, any student who attempted to enroll in Biochemistry 0414.540 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 Biochemistry 0414.540 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.

Biochemistry 0414.540 is offered concurrently with an undergraduate course, Introduction to Biochemistry 0414.440. This undergraduate course has the same prerequisites Biochemistry 0414.540. 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:

0414.540

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:

0414.540

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.