TITLE: Two Changes to BS Biochemistry Degree Program

Sponsor(s):
- Robert Newland e-mail: newland@rowan.edu
- Catherine Yang e-mail: yang@rowan.edu
- Richard Frazee e-mail: frazee@rowan.edu

DEPARTMENT:
Chemistry & Biochemistry

COLLEGE:
CLAS

If LAS-check: __ History/Humanities __ Social/Behavioral Sciences

X Math/Science

UNDERGRADUATE
- New non gen-ed
- 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

GRADUATE

Signatures Required: representing approval before submission to Office of the Senate

Department Chair:

Department CURRICULUM Chair:

Academic DEAN:

COLLEGE CURRICULUM COMMITTEE:

Open Hearing Date: 3/8/06
Approved Not Approved

Signature: College Curriculum Chair

Signature: SENATE CURRICULUM CHAIR

Date: 3/27/06

Comments:

Signature: Executive Vice President/Provost:

Date: #4/11/06#

Approved: Not Approved:

Signature: REGISTRAR

Date: 5/30/06

Course Description Received & Approved

Hegis Taxonomy & Course #

Notification Forward:

SCC CHAIR Academic Dean
IR Department Chair
CAP VP/Student Affairs
Registrar Other-
Minor Curricular Changes

Two Changes to BS Biochemistry Degree program

Details

A1. Change the Restricted Elective courses as follows:
   From: 3 upper level Biology courses
      0411.330 Microbiology
      0401.430 Cell Biology
      0422.450 Molecular Genetics

   To: 2 selected from the list, the rest of the 20 sh selected from biochemistry and chemistry courses at 300 or 400 level.
      0411.330 Microbiology
      0401.430 Cell Biology or 0401.428 Developmental Biology
      0422.450 Molecular Genetics or 0422.410 Human Genetics.

A2. Change required courses
   From:  Biology I & II

   To:  Biology 2 & 3

B. Sponsors: Cathy Yang, Robert Newland and Richard Frazee
   Department of Chemistry and Biochemistry

Rational

a. Statements of need: The Biochemistry program will make minor changes in response to recent approved changes in the Biology course offerings.
   1. The Biological Sciences Department will no longer offer Biology I & II and are replacing those courses with Biology 1-4. After discussion and negotiation with Biological Sciences we have mutually decided to require Biology 2 & 3 of all Biochemistry majors.
   2. The Biological Sciences Department will reduce the frequency of upper level courses so we have decide to permit more choices in the upper level biology courses required of Biochemistry majors to ensure reasonable graduate timelines and to simply give more choices to those majors. Reducing the number of courses is also to ensure better graduation timelines.

b. Statements of curricular effect: The curricular effect is as follows:
   This will assist biochemistry majors by allowing them to obtain biology courses more readily and it will provide them choices. This should help with graduate rates.

Results of Consultation
   A consultation letter will be generated by the Department of Biology.
Rowan University
Curriculum Proposal: LIBRARY RESOURCE FORM

THIS FORM MUST BE COMPLETED FOR ALL CURRICULUM PROPOSALS
The purpose of this form is to provide a channel of communication between the Campbell Library staff and faculty when changing and designing new courses/programs. The information will be used to assess the resources available in the library, and to identify resources the library should acquire to support the course/program. The information will also provide the rationale for institutional support for library acquisitions. This form should be completed in a coordinated effort between the course sponsor(s) and the academic department liaison librarian.

Note: Sponsor(s) complete parts A & B
If assistance is required to complete, please notify the librarian liaison.
Forward this form to the librarian who will complete parts C, D & E

When form is completed, attach to the original curriculum proposal before submitting to the Senate office.

A. College: LAS
   Department: Chemistry & Biochemistry

   Proposed by: C. Yang, R. Newland
   Date: 01/2006

   COURSE TITLE: Changes to BS Biochemistry Degree Program

   Anticipated Date for Course/Program Offering: Fall 2006

B. List specific resources that should be acquired to support this course.

   No additional resources are required. The library's existing holdings in developmental biology and human genetics should be sufficient for the slightly increased demand (by students who choose those electives instead of the courses required previously).

C. Describe the resources available in the library to support this course/program, including reference, monographic, electronic databases, audio-visual materials, etc. A summary statement is sufficient.

   The library has 28 books in Developmental Biology (most published in the past 10 years) and 119 books in Human Genetics. We also have online access to ScienceDirect, Biomedical Reference Collection, MEDLINE, all the Nature journals, and the Wiley InterScience collection.

D. List key periodicals available in the library to support this course/program.

   Key periodicals available in print or online at Campbell Library include 5 in the area of human genetics and 14 in developmental biology, in addition to the microbiology, cell biology, and molecular genetics periodicals.

E. Librarian comments & recommendations:

   The proposed change in the degree program does not require any change in library support. It can be supported with existing resources.

   LIBRARIAN LIAISON: Denise Brush
   Signature: Denise A. Brush
MEMO TO: Robert Newland
From: Gregory Hecht

Re: BS Biochem curriculum proposal

Bob —

Thank you for consulting with the Biological Sciences Dept regarding your curricular proposal entitled "Two Changes to BS Biochemistry Degree Program."

The change in regards to the Biology core (Detail A2) is entirely appropriate. The change will allow our Department to provide a more rigorous and skill-oriented core than our old Biology I & II core.

The change in regards to the Restricted Electives (Detail A1) should make it easier for Biochemistry majors to satisfy the Biology component of their degree. The new arrangement will provide the flexibility necessary to meet the Biochem majors' needs since we expect that several of our upper level courses will likely alternate with each other on our annual schedule.

We fully and enthusiastically support the proposal.

Sincerely,

Gregory B. Hecht, Ph.D.
Interim Chairperson
Associate Professor of Microbiology & Molecular Biology
Department of Biological Sciences
Rowan University
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Glassboro, NJ 08028
Office: Science Hall 130D
Laboratory: Science Hall 221
(856) 256-4834 (office, phone mail)
(856) 256-4500 x3577 (phone mail only)
 x3024 (lab)
Fax: (856) 256-4478
hecht@rowan.edu
http://users.rowan.edu/~hecht
http://www.rowan.edu/biology
<p>**ROWAN UNIVERSITY SENATE**<br>COLLEGE CURRICULUM COMMITTEE WORKSHEET</p>

### PART I: INFORMATION

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### PART II: COMMON PROBLEMS REVIEWED

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### PART III: COMMITTEE DECISION

- **X** Pass with NO CHANGES
- Passed – Return to Sponsor for MINOR CHANGES
- Tabled w/SUGGESTED MINOR CHANGES
- NOT APPROVED

HEARING SUMMARY:

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