

Library Resource Form Required for New Non-Gen-Ed

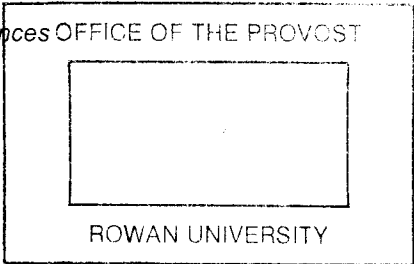
Submission Deadlines: Fall - October 10, 2006 Spring - February 13, 2007

TITLE Molecular Genetics (BIOL 22.450): Change in course pre-requisites & catalog description

Sponsor(s) Gregory Hecht e-mail: hecht@rowan.edu
e-mail:
e-mail:

DEPARTMENT Biological Sciences
College CLAS

If **LAS** -check: History/Humanities Social/Behavioral Sciences
 xx Math/Science
xx UNDERGRADUATE GRADUATE
 New non gen-ed Major
 Short-Term non gen-ed
xx Minor curricular changes (fewer than three) to:
xx Existing non gen-ed course
 Non gen-ed degree requirements
 Major
 Minor, specialization, concentration, track, certificate program



Molecular Genetics BIOL 22.450

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

Department Chair: [Signature] Date: 2/4/07
Department CURRICULUM Chair: [Signature] Date: 2/9/07
Academic DEAN: [Signature] Date: 2/13/07

COLLEGE CURRICULUM COMMITTEE: Open Hearing Date: 3/2/07
Approved: [Signature] 3/5/07
Not Approved: [Signature]

Signature: SENATE CURRICULUM CHAIR [Signature]
Date: 3/10/07

Comments: _____

Signature: Executive Vice President/Provost: [Signature] Date: 4/13/07
ALI A. HOUSHMAND 4/14/07 SS

Signature: REGISTRAR [Signature] Date: 4/14/07
Approved: [Signature]
Not Approved: _____

Course Description Received & Approved
Hegis Taxonomy & Course # _____

Notification Forward:
 SCC CHAIR Academic Dean
 IR Department Chair
 CAP VP/Student Affairs
 Registrar Other-

Adst: 4-25-07
Imtl: 4-19-07

Minor Curricular Change

Molecular Genetics (BIOL 22.450): Change in course pre-requisites and catalog description

1. Details

a. *Change Requested:*

Change in course pre-requisites:

From: Biology I (BIOL 01.100), Biology II (BIOL 01.101), and any one of the following: Genetics (BIOL 22.335), Introduction to Biochemistry (BIOL 14.400), Biochemistry (CHEM 07.348), or permission of instructor

To: Biology 4: Global Ecology (BIOL 01.204) or permission of instructor 2005/06
SK

Change in catalog description:

From: This course considers the principal concepts in biochemical genetics which indicate the high degree of chemical diversity present in living organisms.

To: This course considers the principal concepts in biochemical genetics including gene function and regulation, DNA replication, and mutation. Laboratories focus on fundamental biotechnology concepts and techniques.

b. *Sponsors:* Dr. G. Hecht, Associate Professor
Department of Biological Sciences

c. *Resources:* Since this is not a new course, a library resource form is not needed.

2. Rationale

a. *Statement of Need:*

Change in Pre-Requisites: The Department is currently implementing Curricular Proposal SCC # 05-06-821, which received final approval during the Spring '06 semester. One of the changes called for in that proposal is the replacement of the Biology I & II (BIOL 01.100 & BIOL 01.101) core, with a new four course sequence. The final course in that sequence is Biology 4: Global Ecology (BIOL 01.204). Thus, in order for students to be able to register for the course, the Biology core course pre-requisite must be updated.

Since each course in the new core serves as a pre-requisite for the next course in the sequence, requiring Biology 4 BIOL 01.204 will by extension require a student to complete the entire core. This means that Biology majors will have completed both Biology 2: Concepts in Genetics (BIOL 01.106) and Biology 3: Introduction of Cell

Biology (BIOL 01.203), thereby meeting the content knowledge addressed in the “Genetics (BIOL 22.335), Introduction to Biochemistry (BIOL 14.400), Biochemistry (CHEM 07.348)” section of the existing pre-requisites. Biology 4 (BIOL 01.204) should be the pre-requisite for Biology majors because that course addresses the development of specific skills that will be required of the students in Molecular Genetics (BIOL 22.450).

In addition to Biology majors, Biochemistry majors also enroll in this course. Biochemistry majors are required to take Biology 2 (BIOL 01.106) and Biology 3 (BIOL 01.203), but not Biology 4 (BIOL 01.204). Dr. Robert Newland, Chairperson of the Department of Chemistry & Biochemistry, indicates that the skill development included in Biology 4 (BIOL 01.204) is included in the Biochemistry program, but not in a single specific course. Thus, the inclusion of “permission of instructor” in the new pre-requisites will be used specifically to allow Biochemistry majors entry into the course.

Change in Catalog Description: The current catalog description for this course is vague and not particularly informative.

b. Statement of Curricular Effect: Updating the pre-requisites of this course will permit both Biology majors and Biochemistry majors to register for the course. Biology majors who have completed the outgoing Biology core will not be “frozen out,” and they will be permitted to enroll in the course by using the pre-requisite waiver form. The change in the catalog description will better convey the content of the course.

The content of the course is not changing, and is neither a cause nor an effect of this proposal.

3. Results of consultation

Consultations were conducted within the Department of Biological Sciences and with the Department of Chemistry & Biochemistry.

CATALOG DESCRIPTION

Course Title: Molecular Genetics

Alphanumeric Number: BIOL 22.450

Pre-requisites: Biology 4: Global Ecology (BIOL 01.204) or permission of instructor

Number of credits: 4

Description:

This course considers the principal concepts in genetics from a biochemical perspective, including gene function and regulation, DNA replication, and mutation. Laboratories focus on fundamental concepts and techniques for the manipulation and analysis of DNA at the molecular level.

Subject: Re: Curricular consultation

Date: Tuesday, February 6, 2007 9:08 AM

From: R Newland <Newland@exchange55.rowan.edu>

To: "Gregory B. Hecht" <hecht@rowan.edu>

The Department of Chemistry & Biochemistry fully supports the curriculum proposal entitled " Molecular Genetics (BIOL 22.450): Change in course pre-requisites and catalog description."

It is a necessary change given the alteration of core courses.

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