

CURRICULUM PROPOSAL FORM 2001-2002

**NEW PROGRAMS, MAJOR PROGRAM REVISIONS, AND PROGRAM NAME CHANGES PROCESS C**

**\*DEADLINES:** Deadline dates for 2001/2002 submissions: Regular proposals: October 19, 2001 to be implemented in Fall 2002; Short-Term proposals: December 7, 2001 to be implemented in Fall, 2002; Regular proposals February 15, 2002 to be implemented in Spring, 2003; March 22, 2002 for short-term courses to be implemented in Spring 2003.

**PROPOSAL TITLE:** Change in the Requirements for the **Minor** in Biology

**SPONSOR(S):** J. Scott, Associate Professor

**DEPARTMENT:** Biological Sciences

**COLLEGE:** Liberal Arts & Sciences

**IF LAS CHECK ONE:**  History/Humanities  Math/Sciences  Social/Behavioral Sciences

**Check One:**  Undergraduate  Graduate

The attached *NEW PROGRAM/MAJOR PROGRAM REVISION/PROGRAM NAME CHANGE* proposal is best described by the item(s) checked.

New degree program

New Certificate of Graduate Study Program

New major

New minor

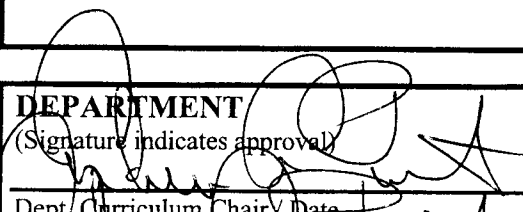
New concentration, specialization, or track

Major changes to degree requirements, major, minor, or certificate program.

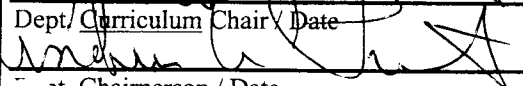
Changes to name of college, school, department or degree

Quasi Curricular

**DEPARTMENT**  
(Signature indicates approval)

 10-15-01

Dept./Curriculum Chair / Date

 10-15-01

Chairperson / Date

**ACADEMIC DEAN (& Graduate Dean, for New Graduate Programs Only)**

Approved  Not Approved \_\_\_\_\_ Comments:

Academic Dean's Signature/Date *Joy Harper* 11/20/01

Graduate Dean's Signature/Date \_\_\_\_\_

**COLLEGE CURRICULUM COMMITTEE**

Approved  Not Approved \_\_\_\_\_  
Comments:

Signature of College Chair/Date: *Hien Nguyen* 11/13/02

**UNIVERSITY CURRICULUM COMMITTEE**

Date of Open Hearing (if necessary) 4/23/02 Approved \_\_\_\_\_ Not Approved \_\_\_\_\_  
Comments:

Curriculum Chair Signature/Date *Janette R. Reeve*

Date voted upon at Senate (if necessary) 5/15/02 Approved  Not Approved \_\_\_\_\_

**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): \_\_\_\_\_ Executive VP/Provost Signature/Date *Nileen Jelle-Gee*  
11/13/02

**REGISTRAR**

Date Approved Course Description Received \_\_\_\_\_ Hegis Taxonomy & Course Number Assigned \_\_\_\_\_

Registrar Signature/Date *E.C. Ely* 11/13/02

**NOTIFICATION FORWARD**

Senate Curriculum Committee Chairperson

Department Chairpersons

Academic Dean(s)

Registrar

*CSP*  
*Int. Rep*  
*In 11-22-02*

\_\_\_\_ Sponsor(s)  
*N*

## 2. Details:

**a. Title:** Change in requirements for the minor in Biology

**b. Change Requested:**

**Current requirements:**

Biology I & II (0401.100 & 0401.101),  
Introductory Botany (0402.200) **OR** Plant Diversity (0402.201)  
Genetics (0422.335)  
Cell Biology (0401.430), and  
one Biology elective, 300-level or above

**Proposed requirements:**

Biology I & II (0401.100 & 0401.101), and 4 additional Biology courses, at least 3 of which must be 300-level or above; these 4 courses must represent at least 3 of the 5 curricular “banks”.

(Some Biology courses are placed in more than 1 bank; students may count a course towards fulfillment of only 1 bank.)

**c. Sponsors:**

Department of Biological Sciences  
J. Scott, Undergraduate Academic Program Advisor

**d. Rationale:**

The Department recognizes the increasing interdisciplinary nature of the Biological Sciences. The proposed changes to the minor reflect our intention of developing students' capacity for career flexibility and adaptability.

**e. Statement of Curricular Effect:**

The changes proposed may result in a greater number of students choosing to obtain a minor in Biology. The proposed changes for the minor provide more choices for the student than the current requirements. For example, the choice of an ecology/environmental course, instead of the currently-required botany or cell biology course, may be more appealing to some students.

**f. Suggested Time of Implementation:**

The Department proposes that the changes proposed become effective for in-coming freshmen entering Rowan University during or after the Fall 2002<sup>3</sup> semester and for transfer students entering Rowan University during or after the Fall 2004 semester.

**CHANGE IN REQUIREMENTS FOR  
THE MINOR IN BIOLOGY**

**1. Abstract:**

Recently, the Department grouped most\* of its upper-level courses (500-level courses) into five curricular "banks": Botany, Zoology, Cellular/Molecular, and Ecology/Environmental. Biology majors must take one course from a minimum of four out of the five banks prior to completing the minor. The change in the requirements for the minor reflects the grouping of the five curricular banks.

*greater "appeal"  
substantive background*

This proposal does not seek to change the number of credits required for the minor in Biology. Thus, this proposal is not expected to change the requirements. The Department wishes to implement this proposal starting in the Spring of 2004 for freshmen and Fall '04 for transfer students. Students enrolling in the minor will have the option to be either "grandfathered" (permitting them to complete the minor under the current requirements) or to complete the minor under the new requirements.

Transfer courses will be evaluated on a case-by-case basis.

\*The following courses have not been placed into banks for the minor in Biology:

- Human Biology (0401.110)
- Natural Resources (0420.100)
- General Biology: Human Focus (0401.113)
- General Biology: Environmental Focus (0401.112)
- Essentials of Biology (0401.105)
- Independent Study (0401.450)
- Biology Lab/Field Research (0401.475)
- Special Topics (0401.440)

**g. Resource Requirements (library, space, and computing):**

The Department does not anticipate that implementation of the changes described in this proposal will alter the Department's current needs in these areas.

**h. Recommended Library Resources:**

The Department does not anticipate that implementation of the changes described in this proposal will alter the Department's current needs in the area of library resources.

**i. Staffing:**

Since the number of students we anticipate in the program is still small, the Department does not anticipate that implementation of the changes described in this proposal will alter the Department's current staffing requirements.

**3. Results of Consultation:**

The Department of Chemistry and Physics was consulted. A copy of their letter of support is attached to this curriculum proposal.

## CATALOG DESCRIPTION

### Current Description:

The Minor consists of 23-24 semester hours (a minimum of 8 of these must be taken at Rowan University). Biology I and II are the only prerequisites for the courses listed, and they may be taken in any order. In keeping with the policy of the Biological Sciences Major, any Biology grade below a C- will not count within the Minor.

0401.100-101 Biology I and II  
0402.200 Introductory Botany **OR** 0402.201 Plant Diversity  
0422.335 Genetics  
0401.430 Cell Biology  
Biology elective, 300-level or above

### Revised Description:

The minor in Biology consists of 23-24 semester hours (a minimum of 8 of these must be taken at Rowan University). The upper-level courses may be taken in any order. In keeping with the policy of the Biological Sciences Major, any Biology grade below a C- will not count within the minor.

0401.100-101 Biology I and II  
4 additional Biology courses, at least 3 of which must be 300-level or above; these 4 courses must represent at least 3 of the 5 curricular "banks"  
(Some Biology courses are placed in more than one bank; students may count a course towards fulfillment of only 1 bank.)





*Department of Chemistry & Physics*

Dr. Joanne Scott  
Biological Sciences  
Rowan University

Dear Dr. Scott,

I have read and I endorse the proposal to change the requirements for the Minor in Biology. I think that the request is reasonable and will meet the current needs of chemistry and physics students who may want a minor in Biology.

Sincerely,

A handwritten signature in cursive script that reads "Eduardo V. Flores".

Eduardo V. Flores  
Chair of Dept. of Chemistry and Physics  
October 8, 2001



*Department of Chemistry & Physics*

Dr. Joanne Scott  
Biological Sciences  
Rowan University

Dear Dr. Scott,

I have read and I endorse the proposal to change the requirements for the Minor in Biology. I think that the request is reasonable and will meet the current needs of chemistry and physics students who may want a minor in Biology.

Sincerely,

*Eduardo V. Flores*

Eduardo V. Flores  
Chair of Dept. of Chemistry and Physics  
October 8, 2001

## Faison, Christy

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From: Joanne Scott  
Sent: Friday, November 8, 2002 12:23 PM  
To: faison@rowan.edu  
Cc: mosto@rowan.edu  
Subject: Change in the Biology Minor

TO: Dr. Christy Faison  
FROM: Joanne Scott, Biological Sciences Department  
DATE: 11-08-02  
RE: Curriculum Proposal to Change the Requirements for the  
Minor in Biology

Dear Dr. Faison:

Several weeks ago Dr. Phil Lewis, Chairperson of the Curriculum Committee, contacted me and said that the Provost's Office had asked the following question:

"Do Bio I and II include general introductory information on all banks?"

I immediately replied to that question by sending an e-mail to Dr. Lewis, requesting that he forward the information to the Provost's Office. Apparently he did not forward the information.

Biology I and II constitute an extensive survey of all topics in biology. Students taking these courses are [theoretically] prepared to take almost every other course offered by the Biological Sciences Department, with only a few exceptions: (The courses in Human Genetics and Molecular Genetics have Genetics as a prerequisite. Introduction to Virology has the prerequisite of EITHER Genetics, Cell Biology, OR Microbiology. These 3 courses are 400- and 500-level,..)

There are a few courses in the Department without prerequisites, but the courses that do have prerequisites have Bio I and II as the prerequisites. Bio I and II are "survey courses", and the objectives of those courses are specifically to prepare students to take upper-level biology courses in all areas of biology.

If there are further questions regarding this issue, please contact me directly. I have taught Bio I and Bio II for the past 13 and 1/2 years, and am very familiar with the syllabus for each of these courses.

The proposal to change the requirements for the Minor in Biology was an attempt to make it easier for non-majors, giving them a broad range of Biology Electives to choose from, rather than making each student take specific courses for the Minor.