

File # 16

Approval Form

Proposal Title: Environmental Sciences

Sponsor(s) A. Prieto Dept.: Biological Sciences Ext. 4833

P. Mosto

Check one: Course Specialization Concentration Minor Achievement Certificate
 Certification Program Major Program Minor Change (please name deletion or credit/title/catalog change)

Undergraduate Graduate 4 Credit Hours

<p>Step 1 (Department)</p> <p><input checked="" type="checkbox"/> Approved <u>5/9/95</u> Date</p> <p><input type="checkbox"/> Not Approved</p> <p><u>J. Scott</u> Dept. Chairperson</p> <p><input type="checkbox"/> Reviewed _____ Date</p> <p><u>R. Mungro</u> Dept. Chairperson</p>	<p>Step 2 (Receipt)</p> <p><input checked="" type="checkbox"/> SCC# <u>95-96-07</u></p> <p>Proposal Received _____ Date</p> <p><u>MAY 19 1995</u></p> <p><u>Ronald Lopez</u> SCC Chairperson</p>	<p>Step 3 (School CC)</p> <p>Reviewed <u>5/1/95</u></p> <p><input checked="" type="checkbox"/> Approved <input type="checkbox"/> Not Approved</p> <p>Comments:</p> <p><u>[Signature]</u> School Cur/Comm Chairperson</p>
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<p>Step 4 (Academic Dean)</p> <p><input checked="" type="checkbox"/> Recommend <input type="checkbox"/> Not Recommend <input type="checkbox"/> Conditionally Recommend (see comments)</p> <p>Reviewed <u>5/10/95</u> Date</p>	<p>Comments:</p> <p><u>[Signature]</u> Signature, Dean of School</p>
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Step 5 (SCC)

Open Hearing 5/24/96 Approved by Senate Curriculum Committee 5/8/96
Date Date

Returned to sponsor(s) for the following reasons:

SENATE
DEC 21 1995
RECEIVED

Step 6 (Senate)

Presented to Senate 5/24/96 Approved Not Approved
Date

Notification to Executive Vice President/Provost _____
Date

[Signature]
Signature, Chairperson

Step 7 (Executive V.P./Provost)

Received _____

Date

If no, reasons are as follows.

Approved Yes No

Student credit hours 4

Faculty load hours _____

Equalized credit hours _____

Official copy and approval sheet filed 6/5/96
Date

C. J. Mathias
Signature, Executive Vice-President/Provost

Registrar

Approved course description received 11/16/96
Date

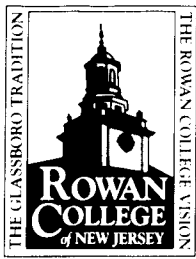
Hegis Taxonomy and Course Number assigned 0420. 330

B. J. Kelley
Signature, Registrar

6/11/96
Date

Notification forwarded:

- Senate Curriculum Committee Chairperson
- Department Chairperson(s)
- Academic Dean(s)
- Registrar
- Sponsor(s)



Rowan College of New Jersey


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*School of Liberal Arts and Sciences
Office of the Dean*

MEMORANDUM

June 4, 1996

TO: Mary-Beth Krogh-Jespersen
Vice-Provost

FROM: Bruce Paternoster 
Associate Dean

SUBJECT: Two new biology laboratory courses:
Environmental Science
Environmental Toxicology

The \$20/student fee common to all but one of the biological science courses should be attached to these courses. However, approval and implementation of these courses will not require an increase in the annual biology laboratory fee allocation, since they will be taught on a rotating basis with other courses as part of the bank of major electives.

copy: Dr. E. Moore

NEW COURSE PROPOSAL

1. Details

a. Course Title: Environmental Science 0401.100

b. Sponsor: Biological Sciences
A. Prieto, Professor
P. Mosto, Assistant Professor

c. Credit Hours: 4 s.h. (2 lectures and 1 laboratory weekly)

d. Course Level: Undergraduate; 300-level HEGIS number requested.

e. Curricular Effect:
The 4 s.h. credit will come from the 30 s.h. of upper level Biological Sciences electives, in particular for those students in the Ecology-Environmental Track. This course will not increase the number of required courses for the Major.

f. Prerequisites: Biology I (0401.100) and Chemistry I (1906.100) or permission of the instructor.

g. Suggested Time and Scale of Implementation:
Effective Spring 1996. The course will be offered once a year.

h. Adequacy of Present Staff, Resources, Library Facilities:
Present faculty are adequate. The two faculty members sponsoring this course have ample expertise to teach it. The journal holdings of the Rowan College Library are only minimally adequate for a course such as we propose. Over time, we hope that additional materials can be purchased for the Rowan College Library. Faculty can provide their own personal library resources.

Laboratory start-up costs would be minimal. Two years ago the department received additional money for the purchase of equipment. Most of that money was allocated to build-up the environmental/ecology track. Computer programs, as well as lab and field equipment were purchased with the idea of the new environmental courses to be designed. Additional lab costs will come from the student lab fees.

Both faculty members sponsoring this course have been involved with the study of environmental issues for most of their scientific careers. Presently, they are working on an acid rain project in the southern New Jersey area. There is plenty of equipment and connections with other institutions in the area to involve students in research projects as part of their lab curriculum with no additional costs.

i. Short-Term Evaluation: N/A



ROWAN

Department of Chemistry and Physics

To: Curriculum Committee
From: Robert Newland, Chairperson
Subject: Environmental Science
Date: April 12, 1996

3/23/96

This Department supports this course. It is an excellent topic and should have been offered many years ago. The prerequisites are appropriate and will permit a variety of students to enroll.

MEMORANDUM

Rowan College of New Jersey

To: Andrew Prieto, Professor
Biological Sciences



From: Ralph Alan Dusseau,
School of Engineering

Ext: 4628

Date: February 12, 1996

Subject: Proposed Environmental Science Courses

I support your proposals for three new environmental science courses entitled "Environmental Toxicology," "Environmental Microbiology," and "Environmental Science." I believe these three courses will serve as appropriate electives for Chemical Engineering students and for students in the Environmental Engineering Option within the Civil Engineering Program.

The Biology and Chemistry prerequisites for the "Environmental Toxicology" course and "Environmental Microbiology" course both exceed the current science requirements for Civil Engineering majors which include only Biology I and Chemistry I. I believe, however, that Civil Engineering seniors who take the Environmental Engineering Option will have enough background from their required environmental engineering courses to qualify for both of these environmental science courses. If possible, you may want to add a clause such as "or permission of instructor" to the prerequisites for these two courses so that Civil Engineering seniors who take the Environmental Engineering Option could qualify for one or both courses.

I believe that all three courses would be both meaningful and worthwhile for Biology students and for Environmental Engineering students. Therefore, I strongly support these three courses.

Thank you very much.