

ROWAN COLLEGE
CURRICULUM COMMITTEE

(12)

PROPOSAL TITLE: Change in Course Options

UNDERGRADUATE GRADUATE CREDIT HOURS

SPONSOR(S): Karen Magee-Sauer

DEPARTMENT & TELEPHONE# Chemistry and Physics - 4855

CHECK ONE: COURSE MINOR PROGRAM CONCENTRATION SPECIALIZATION
 ACHIEVEMENT CERTIFICATE CERTIFICATION PROGRAM MAJOR PROGRAM

<p>STEP #1 (DEPARTMENT)</p> <p>APPROVED/DATE: <u>12/11/96</u></p> <p>NOT APPROVED/DATE: _____</p> <p>DEPT. CURRICULUM CHR. <u>[Signature]</u></p> <p>REVIEWED/DATE: <u>12/16/96</u></p> <p>DEPT. CHR. <u>[Signature]</u></p>	<p>STEP #2 (RECEIPT)</p> <p>SCC# <u>97-61</u></p> <p>DATE RECEIVED SENATE</p> <p style="text-align: center;">OCT 17</p> <p style="text-align: center;">RECEIVED</p> <p>SENATE CURRICULUM CHR. <u>[Signature]</u></p>	<p>STEP #3 (SCHOOL)</p> <p>REVIEWED DATE: <u>11-7-96</u></p> <p><input type="checkbox"/> RECOMMEND TO APPROVE</p> <p><input type="checkbox"/> RECOMMEND NOT TO APPROVE</p> <p style="text-align: center;">FORWARD FOR OPEN HEARING</p> <p><input type="checkbox"/> WITHOUT RESERVATIONS</p> <p><input type="checkbox"/> WITH RESERVATIONS</p> <p>COMMENTS: _____</p> <p>SCHOOL COMMITTEE CHR. <u>[Signature]</u></p>
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<p>STEP #4 (ACADEMIC DEAN)</p> <p><input checked="" type="checkbox"/> RECOMMEND</p> <p><input type="checkbox"/> NOT RECOMMEND</p> <p><input type="checkbox"/> CONDITIONALLY RECOMMEND (SEE COMMENTS)</p> <p>DATE & SIGNATURE, DEAN OF SCHOOL <u>[Signature]</u></p>	<p>COMMENTS: _____</p> <p style="text-align: right;">SENATE DEC 13 1996</p>
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<p>STEP #5 (SENATE CURRICULUM COMMITTEE)</p> <p>DATE OF OPEN HEARING <u>2-13-97</u></p> <p>APPROVED BY SENATE CURRICULUM COMMITTEE (DATE) <u>2/13/97</u></p> <p><input type="checkbox"/> RETURNED TO SPONSOR(S) FOR THE FOLLOWING REASONS: _____</p>	<p style="text-align: center;">SENATE DEC 13 1996</p>
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<p>#6 (SENATE)</p> <p>DATE PRESENTED TO SENATE <u>2-26-97</u></p> <p>NOTIFICATION TO EXECUTIVE VICE PRESIDENT/PROVOST (DATE) _____</p> <p>SENATE CURRICULUM COMMITTEE CHAIR SIGNATURE/DATE <u>[Signature] 2/28/97</u></p>	<p><input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> NOT APPROVED</p>
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STEP #7 (EXECUTIVE VICE PRESIDENT/PROVOST)

DATE RECEIVED 3/7/97

APPROVED: YES NO

IF NO, REASONS ARE AS FOLLOWS:

STUDENT CREDIT HOURS _____

FACULTY LOAD HOURS _____

EQUALIZED CREDIT HOURS _____

OFFICIAL COPY & APPROVAL SHEET FILED (DATE) _____

SIGNATURE, EXECUTIVE VICE PRESIDENT/PROVOST [Signature]

REGISTRAR

DATE APPROVED COURSE DESCRIPTION RECEIVED 17 Mar '97

HEGIS TAXONOMY AND COURSE NUMBER ASSIGNED N/A

DATE/SIGNATURE OF REGISTRAR [Signature]

NOTIFICATION FORWARD:

SENATE CURRICULUM COMMITTEE CHAIRPERSON

DEPARTMENT CHAIRPERSON(S)

ACADEMIC DEAN(S)

REGISTRAR

SPONSOR(S)

Minor Program Change B.S. Physical Science, General Specialization

1. Details:

a. Change Requested:

From: Choose 2 or the following 3 courses

(Physics III, Analytical Mechanics, Electricity and Magnetism)

To: Physics III required of all majors, plus one Physics course at the 300 level or higher.

b. Sponsors: Karen Magee-Sauer and Physics Section, Department of Chemistry and Physics (Flores, Hettinger, Ling, and Sagle)

Current General Science Specialization Requirements:

Organic Chemistry I

Quantitative Analysis

Biology II or Physical Geography

Astronomy or Meteorology

Intro to Marine Science

Choose 2 or the following 3:

Physics III

E&M

Mechanics

Change to:

Organic Chemistry I

Quantitative Analysis

Biology II or Physical Geography

Astronomy or Meteorology

Intro to Marine Science

Physics III

300 or higher level Physics course

2. Rationale

The Physics III course includes topics that provide a solid foundation for study of advanced topics in Physics. The Physics section believes that it is more appropriate that this course be a required course rather than an elective. Without a requirement for this course, it is possible that the student would not be introduced to topics dealing with Modern Physics (Quantum Mechanics, Atomic, Nuclear, and Condensed Matter Physics) in their Physical Sciences - General degree.

The student should be able to choose from all the upper level physics courses for their other required physics course depending on the student's own interest and schedule. Most upper level courses are offered every two years, so we must be sure that courses we require of our students are offered when they are ready to take them. There is also no reason why Mechanics should be required over Quantum Mechanics, Statistical Mechanics or other upper level course. This selection should be made by the student.

3. Results of Consultation

a. Robert Newland, Chair, Chemistry and Physics

b. Charles Schultz, Coordinator, B.S. Physical Sciences Major