

**PROCESS A** NON-GENERAL EDUCATION ~ CURRICULUM PROPOSAL

SCC #02-03- 1270 <sup>(C)</sup>

**Deadlines:**

Regular proposals: October 18, 2002 to be implemented Fall 2003; Short-Term proposals: December 6, 2002 to be implemented Fall 2003  
Regular proposals: February 14, 2003 to be implemented Spring 2004; March 21, 2003 short-term courses to be implemented Spring 2004

PROPOSAL TITLE: NURS 306 PHARMACOLOGY

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DEPARTMENT: BIOLOGY

COLLEGE: LAS

If Liberal Arts & Sciences CHECK :  History/Humanities  Math/Sciences  Social/Behavioral Sciences

UNDERGRADUATE  GRADUATE

THE ATTACHED **NON-GEN-ED** PROPOSAL IS BEST DESCRIBED BY THE ITEM(S) CHECKED.

<input checked="" type="checkbox"/> New non-gen-ed course	<input type="checkbox"/> Non-gen-ed degree requirements
<input type="checkbox"/> Short-term non-gen-ed course	<input type="checkbox"/> Major
<input type="checkbox"/> Minor curricular changes (fewer than three)	<input type="checkbox"/> Minor, specialization/concentration, track, certificate program
<input type="checkbox"/> Existing non-gen-ed course	

**The following signatures REPRESENT APPROVAL**

Department Chair: [Signature] Date: 2/21/03

Department Curriculum Chair: [Signature] Date: 2/21/03

Academic Dean: [Signature] Date: 2-25-03

College Curriculum Chair: [Signature] Date: 2-22-03

College Curriculum Committee OPEN HEARING Date: 2-22-03 Approved  Not Approved

**UNIVERSITY CURRICULUM COMMITTEE**

Senate Curriculum Chair Signature: [Signature] Date: Senate Announcement/Vote: 9-22-2003

Comments: See proposal SCC# 02-03-817

EXECUTIVE VICE PRESIDENT/PROVOST Signature: [Signature] Date: 2/17/04

Approved ~ Not Approved due to the following:  Student Cr Hrs  Faculty Load Hrs  Equalized Cr Hrs

**REGISTRAR**

Date: 3/11/04 Course Description Received & Approved ~ Hegis Taxonomy & Course #: 1203306

Registrar Signature: [Signature]

OFFICE OF THE PROVOST

MAR 15 2004

SCC Chair

ROWAN UNIVERSITY

**NOTIFICATION FORWARD**

Academic Dean  Department Chair  Registrar  Sponsor(s)

7m 3/10/04

1 New Course Proposal:  
2 **PHARMACOLOGY**

3  
4 **I. DETAILS.**

5  
6 **a. Course Title:** Pharmacology

7  
8 **b. Sponsors:** Gregory B. Hecht, Elizabeth Brooks, Richard Meagher (Dept.  
9 Biological Sciences)

10 Co-sponsor: UMDNJ (University of Medicine & Dentistry of New Jersey)

11  
12  
13 **c. Credit Hours:** 2.0

14  
15 **d. Course level:** Junior (300 level). This course has previously been designated  
16 "NURS 306" at NJIT (see "Rationale" below); if possible, a HEGIS number  
17 containing the "306" number is preferred.

18  
19 **e. Pre-requisites:** enrollment in the UMDNJ/Rowan Joint R.N. to B.S.N. Program  
20 (see accompanying "Bachelor of Science in Nursing" proposal)

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22 It is also assumed that students will have completed Anatomy & Physiology II  
23 and Chemistry I (or the equivalent) as these courses are requirements for the R.N.  
24 degree.

25  
26 **f. Suggested Time & Scale of Implementation:** Initial offering to begin Spring  
27 2004. Course will be offered once every year during the Spring semester. The  
28 course will have one 2 hour session each week.  
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## 30 II. CURRICULAR EFFECT

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32 The proposed course will be a requirement for completion of the UMDNJ/Rowan R.N. to  
33 B.S.N. Joint Program.

34

35 **Offerings:** This course will be taught by faculty from UMDNJ rather than Rowan  
36 University's Biological Sciences faculty. Thus, implementation of this proposal is  
37 not expected to require any existing courses to be dropped or to be offered less  
38 frequently.

39

40 **Adequacy of the present staff, resources, space needs, etc.:** This course will be  
41 taught by faculty from UMDNJ rather than Rowan University's Biological  
42 Sciences faculty. Thus, implementation of this course will not place a demand on  
43 the teaching load of Rowan University's Biological Sciences Department. The  
44 new science building -- scheduled to open during Summer 2003 -- offers ample  
45 classroom space for this course.

46

47 **Recommended Library Resources:** All students enrolled in the UMDNJ/Rowan  
48 Joint R.N. to B.S.N. Program will have access via the web or in person to the  
49 UMDNJ library. Students in the current UMDNJ/NJIT joint program almost  
50 exclusively use the UMDNJ library resources for this course and seldom use the  
51 NJIT library. Thus, it is expected that this course will similarly not create a  
52 demand for library resources on the Rowan University campus.

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## 55 III. RATIONALE

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57 This Pharmacology course (NURS 306) is being transferred to Rowan University  
58 from an existing BSN curriculum offered at NJIT.

59 The study of pharmacology is vital to the field of medicine. The ability to  
60 understand pharmaceutical agents and their relative effects on human physiology and  
61 pathology is central to the registered nurse.

62 This course offers instruction of the wide array of drugs which nurses are exposed  
63 to. This course covers legal issues, drug therapies for various pathologies, as well as,  
64 new drugs and herbal supplements.

65 It is therefore important that all nursing students be required to take this course in  
66 Pharmacology prior to completion of their BSN degree.

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70 **IV. ESSENCE OF THE COURSE**

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72 **a. Objectives of the course in relation to student outcomes.** Upon completion of this  
73 course, the student will be able to:

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75 1. Discuss the therapeutic, pharmacologic, adverse effect, and toxicity profiles of  
76 medications in various drug categories.

77

78 2. Correlate manifestations of pathophysiologic processes with their related  
79 pharmacologic interventions.

80

81 3. Describe the nursing assessment, planning, implementation, and evaluation  
82 processes involved in the administration of medications in various drug  
83 categories.

84

85 4. Discuss client education needs specific to the administration of medications in  
86 various drug categories.

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88 5. Describe the legal, ethical, and accountability issues involved in the administration  
89 of various classes of medications.

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91 6. Identify nursing research implications related to drug therapy.

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94 **b. Topical Outline/Content.**

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96 1. Introduction to Pharmacology, including: Legal Issues; Drug Schedules;  
97 Pharmacodynamics and pharmacokinetics

98 2. Antimicrobial therapy: Antibacterials, antituberculars, antivirals, chemotherapy

99 3. Electrolytes, antiinflammatories, analgesia & pain management

100 4. Respiratory agents

101 5. Cardiac agents

102 6. GI agents, endocrine agents (antidiabetics ), renal agents, and circulatory  
103 system agents

104 7. Neurologic agents

105 8. Herbal Supplements, Alternative Therapies

106 9. New drugs, clinical trials, off label usage

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108 Methods of instruction for this course when it was offered at NJIT have included lectures,  
109 seminars, handout materials, assigned readings from textbooks and research articles,  
110 written presentations, case studies, internet searches, audiovisuals, computer-assisted  
111 instruction, and email communications.

112

113 *Examples of texts appropriate for this course:*

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115 American Psychological Association (2001). Publication manual of the American  
116 Psychological Association (5<sup>th</sup> Ed.). Washington, DC. Author.

117

118 Baron. Bud's Easy Research Paper Computer Manual. Lawrence House  
119 Publishers. (4<sup>th</sup> Ed.) ISBN: 1-891707-051

120

121 Lehne, R., Moore, L. Crosby, L. and Hamilton, D. (2001). Pharmacology for  
122 Nursing Care. (4<sup>th</sup> Ed.) Philadelphia: W.B. Saunders.

123

124 Lehne, R. and Czernak. The Study Guide For Pharmacology In Nursing Care.  
125 Philadelphia: W.B.Saunders. (4<sup>th</sup> ed.). ISBN 0-721-668-772.

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127 **c. Evaluation of students and grading procedure.** During the time that this course was  
128 taught at NJIT, students were evaluated by the following kinds of activities: exams;  
129 group projects; case study presentations; drug study term paper.

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131 **d. Course Evaluation:** During the time that this course was taught at NJIT, the UMDNJ  
132 faculty routinely conducted assessment of the success of this course. The Biological  
133 Sciences Department routinely reviews each of its course offerings to assess their  
134 success in meeting stated goals and objectives. The Biological Sciences Department,  
135 in collaboration with UMDNJ, will expand its review process to include this course.

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## 138 **V. RESULTS OF CONSULTATIONS**

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140 Results of Consultations

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142 Planned consultations:

143 Dept. Special Education

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145 **CATALOG DESCRIPTION**

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147 **XxxxHEGISxxxx****2.0 s.h.**148 *(Pre-requisites: enrollment in the UMDNJ/Rowan Joint R.N. to B.S.N. Program)*

149 This course consists of a review and an extension of students' prior knowledge of  
150 pharmacological science. The mechanisms of action of drugs used to treat various health  
151 conditions at the cellular level and appropriate nursing strategies for care of patients  
152 receiving a variety of pharmacologic interventions are discussed.

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