

Memorandum

TO: Phyllis Nash, Ed.D.  
Vice Chancellor for Academic and Student Affairs  
Deans, Department Chairs and Members of the University Senate

FROM: Kenneth B. Roberts, Ph.D.  
Dean

DATE: December 16, 2002

RE: Request for Approval of Course Changes

The faculty of the College of Pharmacy has approved and submits for consideration and approval the following four course changes and one course drop:

**Change**

PHR 914 BASIC PRINCIPLES OF PHARMACEUTICAL SCIENCE: DRUG DESIGN. (3)

The first course of a three-semester sequence dealing with the principles of medicinal chemistry and pharmaceuticals. Brief descriptions of the drug development process, routes of administration, dosage forms, literature and biopharmaceutics, followed by discussions of the design of molecules to produce safe and effective therapeutic responses in humans and the properties of drug molecules which are important in their formulation into drug products. Variable mixture of lectures, discussions and independent study. Prereq: admission to first year, College of Pharmacy.

**To**

PHR 914 BASIC PRINCIPLES OF PHARMACEUTICAL SCIENCE: PHARMACEUTICS AND BIOPHARMACEUTICS I. (3) The first of a two course sequence in basic principles of Pharmaceutical Science concentrating on absorption, distribution, metabolism, excretion and bioavailability of drugs; and an introduction to dosage forms, oral drug delivery systems, drug solutions and drug solids, bioequivalence determinations and ratings, and official compendia. Variable mixture of lectures, discussions and independent study. Prereq: admission to first year, College of Pharmacy.

**Justification**

The sequence of course topics in the three course sequence of 914, 924 and 944 was not as conducive to an integrated curriculum as hoped and did not provide the required basic information needed for parallel courses. This change condenses the material formerly covered in 914 and moves some of the material formerly covered in 944 into 914, allowing it to be covered earlier in the curriculum.

**Change**

PHR 924 BASIC PRINCIPLES OF PHARMACEUTICAL SCIENCE: DRUG FORM DESIGN

(3)

This is the second course in a three-semester sequence dealing with the principles of medicinal chemistry and pharmaceuticals. The application of chemical kinetics to drug stability and the application of physicalchemical principles to the formulation of pharmaceutical solutions and

solids are discussed. Variable mixture of lecture, group discussion and independent study. Prereq: admission to the first year, College of Pharmacy; and PHR 914

**To**

PHR 924 BASIC PRINCIPLES OF PHARMACEUTICAL SCIENCE: PHARMACEUTICS AND BIOPHARMACEUTICS II (3):

The second of a two course sequence in the basic principles of Pharmaceutical Science concentrating on modified release oral dosage forms; modified release parenteral dosage forms; nasal, buccal, rectal, vaginal and ophthalmic delivery systems; aerosols and pulmonary delivery systems, and the drug development process. Variable mixture of lecture, group discussion and independent study. Prereq: admission to the first year, College of Pharmacy; and PHR 914

**Justification**

The sequence of course topics in the three course sequence of 914, 924 and 944 was not as conducive to an integrated curriculum as hoped and did not provide the required basic information needed for parallel courses. This change takes the material formerly covered in 944, adds a more in depth discussion of those, and moves them into 924. It moves the medicinal chemistry components of 924 into 944.

**Change**

PHR 944 BASIC PRINCIPLES OF PHARMACEUTICAL SCIENCE: NEW/NOVEL DOSAGE FORMS. (3)

The last course in a medicinal chemistry and pharmaceutics sequence, consisting of a discussion of in vivo testing to establish the bioequivalence of drug products, the application of physical-chemical principles to the formulation of pharmaceutical disperse systems, and a survey of modern drug delivery systems with a review of the scientific principles upon which they are based. Variable mixture of lecture, group discussion and independent study. Prereq: admission to the second year, College of Pharmacy.

**To**

PHR 944 BASIC PRINCIPLES OF MEDICINAL CHEMISTRY. (3)

The rational design of molecules to produce safe and effective therapeutic responses in humans; molecular changes in drug molecules that affect affinity and activity at drug receptors and influence the absorption, distribution, metabolism, excretion and stability of drugs; and the properties of drug molecules which are important in their formulation into drug products. Variable mixture of lecture, group discussion and independent study. Prereq: admission to the second year, College of Pharmacy.

**Justification**

The sequence of course topics in the three course sequence of 914, 924 and 944 was not as conducive to an integrated curriculum as hoped and did not provide the required basic information needed for parallel courses. It moves the medicinal chemistry components of 914 and 924 into 944.

**Drop**

PHR 998 Pharmacy Practice Clerkship: Mentoring (4)

**Justification**

Originally designed to coincide with an introductory practice experience to allow advanced students to learn precepting skills. The time of the introductory experience has changed so the original intent of this experience cannot be fulfilled. Other advanced practice experiences are offered that provide experience for students interested in developing educational skills.