

## PHRD 533 RENAL/UROLOGY MODULE

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### **Course Prerequisites**

PHRD510

### **Course Description**

This course will teach the principles and background necessary to appropriately perform pharmaceutical care for a variety of renal and urological disease states. All pharmacology, medicinal chemistry, kinetics, and therapeutic principles relative to renal and urologic disease states will be taught.

### **Required Texts**

Joseph DiPiro, Robert Talbert, Gary Yee, Gary Matzke, Barbara Wells, L. Michael Posey. *Pharmacotherapy: A Pathophysiologic Approach*. McGraw-Hill.

Thomas Nogrady, Donald F. Weaver. *Medicinal Chemistry: A Molecular and Biochemical Approach*. Oxford University Press.

Goodman, Gillman. *The Pharmacological Basis of Therapeutics*. McGraw-Hill.

### **Course Outcomes (from ULM College of Pharmacy Educational Outcomes)**

- Collect patient-specific data regarding demographics, medical history, diagnosis, physical assessment, and medication history.
- Analyze and interpret information gathered to identify any drug-related problem.
- Develop and implement an evidence-based care plan.
- Identify goals of therapy that are individualized to the patient.
- Develop a plan of care that includes interventions to resolve drug therapy problems, achieve the goals of therapy, and prevent drug therapy problems.
- Develop a schedule to follow-up and evaluate the effectiveness of outcomes from drug therapies and assess any adverse events experienced by the patient.
- Evaluate patient outcomes with respect to the achievement of goals of therapy, patient adherence, patient safety, and the development of new drug therapy problems.
- Document all activities involved with the provision of comprehensive patient specific pharmaceutical care.
- Counsel and educate patients regarding medication use, disease-state management, and health maintenance. Promote/participate in effective health and disease prevention services as part of patient or population specific care.
- Identify, retrieve, understand, analyze, synthesize, and evaluate information needed to make informed, rational, and ethical decisions.
- Systematically gather, organize, and extract relevant information using a variety of methods and research tools.
- Analyze information within appropriate scientific, social, and clinical contexts.

### **Course Topics**

The following course topics for this module should be considered essential. The amount of time estimated to cover these topics would be approximately 42 hours of class instruction (3 hours total). This module could be compressed into part of a semester if needed.

- Pharmacology and Medicinal Chemistry Renal and Urological Medication Review
- Fluid and Electrolytes/Acid-Base
- Acute and Chronic Renal Failure

- Urinary Incontinence

### **Evaluation and Grade Assignment**

Grading Scale:

90.0 – 100%	A
80.0 – 89.9%	B
70.0 - 79.9%	C
60.0 – 69.9%	D
<60.0%	F

### **Class Policies and Procedures**

At a minimum, all policies stated in the current ULM *Student Policy Manual & Organizational Handbook* should be followed (see <http://www.ulm.edu/studentpolicy/>). Additional class policies include:

#### **Attendance Policy**

Class attendance is required. Class attendance is regarded as an obligation as well as a privilege, and students are expected to know attendance regulations and to attend regularly and punctually at classes in which they are enrolled. Failure to do so: (1) may prevent access to the classroom during regularly scheduled times; (2) may jeopardize a student's scholastic standing; and (3) may lead to suspension from the college or University. Students shall submit excuses for all class absences to professor within three class days after returning to classes. Professors shall accept an official University excuse. With the following exceptions professors are to determine whether absences are excused or unexcused: 1) Absences arising from authorized trips away from the University or from special duties at the University shall be excused. 2) Absences arising from a student's confinement in a hospital or other in-patient facility or doctor's excused absences shall be excused. Students are responsible for verifying this information to the faculty. 3) Absences arising from a death in the immediate family shall be excused. The immediate family is defined as spouse, child, step-child, mother, father, sister, brother, grandmother, grandfather, step-mother, step-father, step-brother, step-sister, aunt, uncle, mother-in-law or father-in-law.

#### **Academic Integrity**

Faculty and students must observe the ULM published policy on Academic Dishonesty (see Page 4, ULM *Student Policy Manual* <http://www.ulm.edu/studentpolicy/>).

Cheating, plagiarism, or other inappropriate conduct will not be tolerated. Academic cheating includes but is not limited to the accomplishment or attempted accomplishment of the following:

1. Copying or obtaining information from another student's test paper.\*
2. Using, during a test, materials not authorized by the person giving the test.\*\*
3. Collaborating, conspiring, or cooperating during an in-class or take-home test with any other person by giving or receiving information without authority.

4. Stealing, buying, or otherwise obtaining all or part of an unadministered test.
5. Selling or giving away all or part of an unadministered test or any information concerning specific questions and items on an unadministered test.
6. Requesting, bribing, blackmailing, or in any other way causing any other person to obtain an unadministered test or information about an unadministered test or a test in the process of being administered.
7. Substituting for another student, or permitting any other person to substitute for oneself to take a test.
8. Submitting as one's own, in fulfillment of academic requirements, any work prepared totally or in part by another person.
9. Any selling, giving, or otherwise supplying to another student for use in fulfilling academic requirement any work.
10. Submitting artificially produced data or information in the place of descriptive, experimental, or survey results.
11. Any other devious means of securing an unearned grade in a non-credit course or in a course offered for credit.
12. Using, during a test, any electronic storage device, wireless and/or internet-based technology, or any other means that provides information not authorized for use during the testing period.

\*A student looking on another student's paper is considered cheating.

\*\*The presence on one's person (or in close proximity thereto) of a condensation of test information which could be regarded as a "cheat sheet" will be considered adequate evidence to establish cheating.

Plagiarism is the use of any other person's work (such work need not be copyrighted) and the unacknowledged incorporation of that work in one's own work offered for credit.

### **Censures (Penalties)**

Academic dishonesty will result in a referral to Committee on Ethical and Professional Standards with a recommendation for a grade of "F" for the course and expulsion from the College. Academic dishonesty includes but is not limited to the use of information taken from others work or ideas, the provision of help to others on non-collaborative evaluations (tests, quizzes, etc.), collaboration on take home exams, or the use of unapproved information or electronic devices to assist in obtaining an answer to the question.

### **Course Evaluation Policy**

At a minimum, students are expected to complete the on-line course evaluation. (Also, include any additional course-specific policies related to evaluation of the course.)

### **Student Services**

Information about ULM student services, such as Student Success Center (<http://ulm.edu/cass/>), Counseling Center (<http://ulm.edu/counselingcenter/>), Special Needs (<http://ulm.edu/counselingcenter/special.htm>) and Student Health Services, is available at the following Student Services web site <http://ulm.edu/studentaffairs/>

### **Emergency Procedures**

### Tentative Course Schedule

NOTE: Each lecture represents approximately 2 hours (Total 42 hours)

Lecture	Topic	Instructor
	Introduction to Course	
1	Review of Renal Pharmacology I	K. Jackson
2	Review of Renal Pharmacology II	K. Jackson
3	Review of Medicinal Chemistry I (diuretics)	R. Hill
4	Review of Medicinal Chemistry II	R. Hill
5	Pathophysiology of Renal Disease	T. Jacobs
6	Intro to Lab Values/Lab Values in Clinical Practice	T. Jacobs
7	Fluid and Electrolytes	K. Sorrells
8	Acid/Base	K. Sorrells
9	Acute Renal Failure	A. Ranzino
10	Acute Renal Failure	A. Ranzino
11	Chronic Renal Failure	T. Jacobs
12	Chronic Renal Failure	T. Jacobs
13	Kinetics of Renal Dosing	T. Jacobs
14	Dialysis	T. Jacobs
15	Drug-Induced Renal Failure	T. Jacobs
16	Pharmacology of Urologic Medications	K. Jackson
17	Medicinal Chemistry of Urologic Medications	R. Hill
18	Urinary Incontinence	E. Evans
19	Benign Prostatic Hyperplasia	J. Sherman
20	Prostatitis	J. Sherman
21	Erectile Dysfunction	J. Sherman
	Modular Exam	