UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

FALL 2014

COURSE NUMBER NUR 3145 – Section 05D5

COURSE TITLE Pharmacology for Nursing

CREDITS 3

PLACEMENT BSN Program: 2nd Semester Upper Division

PREREQUISITE NUR 3129 Pathophysiology and Psychopathology

NUR 3138 Systems of Care 1: Wellness Promotion and Illness Prevention

COREQUISITE AGR 4932 Introduction to Genetics and Genomics

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# FACULTY Bryan A. Weber, PhD, ARNP

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COURSE DESCRIPTION The purpose of this course is to examine pharmacotherapeutic agents used in the treatment of illness and the promotion, maintenance and restoration of wellness in diverse individuals across the lifespan. Emphasis is on the principles of pharmacokinetics, pharmacodynamics and pharmacogenetics in the treatment of selected illnesses. The focus is on concepts of safe administration and monitoring the effects of pharmacotherapeutic agents.

COURSE OBJECTIVES Upon completion of this course, the student will be able to:

1. Describe the general principles of pharmacotherapeutics, pharmacokinetics, pharmacodynamics, and pharmacogenetics/genomics in wellness promotion and illness prevention and treatment.
2. Describe principles of safe administration of medications.
3. Contrast the principles of pharmacotherapeutics across the lifespan including the effects of race, gender and, ethnicity.
4. Investigate technologies and systems used for medication administration.
5. Discuss legal and ethical parameters of medication administration.

COURSE SCHEDULE

E-Learning in Sakai is the course management system that you will use for this course. E-Learning in Sakai is accessed by using your Gatorlink account name and password at <http://lss.at.ufl.edu>. There are several tutorials and student help links on the E-Learning login site. If you have technical questions call the UF Computer Help Desk at 352-392-HELP or send email to [helpdesk@ufl.edu](mailto:helpdesk@ufl.edu).

It is important that you regularly check your Gatorlink account email for College and University wide information and the course E-Learning site for announcements and notifications.

Course websites are generally made available on the Friday before the first day of classes.

ATTENDANCE

Students are expected to be present for all scheduled classes, other learning experiences, and examinations. Students who have extraordinary circumstances preventing attendance should explain these circumstances to the course instructor **prior** to the scheduled class or as soon as possible thereafter. Instructors will then make an effort to accommodate **reasonable** requests. A grade penalty may be assigned for late assignments, including tests.

ACCOMODATIONS DUE TO DISABILITY

Each semester, students are responsible for requesting a memorandum from the Disability Resource Center (<http://www.dso.ufl.edu/index.php/drc/>) to notify faculty of their requested individual accommodations. This should be done at the start of the semester.

COUNSELING AND MENTAL HEALTH SERVICES

Students may occasionally have personal issues that arise on the course of pursuing higher education or that may interfere with their academic performance. If you find yourself facing problems affecting your coursework, you are encouraged to talk with an instructor and to seek confidential assistance at the University of Florida Counseling and Wellness Center, 352-392-1575, visit their web site for more information: <http://www.counseling.ufl.edu/cwc/>.

STUDENT HANDBOOK

Students are to refer to the College of Nursing Student Handbook for information about College of Nursing policies, honor code, class demeanor and professional behavior. <http://nursing.ufl.edu/students/student-policies-and-handbooks/>.

ACADEMIC HONESTY

The University of Florida Student Conduct and Honor Code may be found at http://www.dso.ufl.edu/index.php/sccr/process/student-conduct-honor-code/

TOPICAL OUTLINE

1. General principles of pharmacotherapeutics, pharmokinetics, pharmacodynamics, and pharmacogenetics/genomics.
2. Medication calculation and administration concepts:
3. Safety
4. Technology and systems
5. Education
6. Drug categories and prototypes
7. Pharmacotherapeutic problem solving for common acute and chronic health problems across systems including drug administration and monitoring for therapeutic responses.
8. Adverse drug reactions and appropriate interventions.

6. Drug interactions based on selected drug categories including drug-drug interactions, drug food interactions, drug-ethanol/tobacco interactions and drug-environmental interactions.

7. Client education and adherence.

8. Economic implications of drug management on client’s lifestyle.

9. Implications of client's cultural health beliefs and practices on drug monitoring and client adherence.

10. Legal and ethical parameters

TEACHING METHODS

Lecture, class discussions, and case presentations

LEARNING ACTIVITIES

Participation in class and case analysis

EVALUATION METHODS/COURSE GRADE CALACULATION

Examinations are each 25% of total grade

MAKE UP POLICY

Makeup for missed work will be negotiated on an individual basis.

GRADING SCALE/QUALITY POINTS

A 95-100 (4.0) C 74-79\* (2.0)

A- 93-94 (3.67) C- 72-73 (1.67)

B+ 91- 92 (3.33) D+ 70-71 (1.33)

B 84-90 (3.0) D 64-69 (1.0)

B- 82-83 (2.67) D- 62-63 (0.67)

C+ 80-81 (2.33) E 61 or below (0.0)

\* 74 is the minimal passing grade

For more information on grades and grading policies, please refer to University’s grading policies: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

FACULTY EVALUATION

Students are expected to provide feedback on the quality of instruction in this course based on ten criteria. These evaluations are conducted online at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu>.

REQUIRED TEXTBOOKS

Workman, M. L., LaCharity, L., & Kruchko, S. C. (2011). Understanding pharmacology: Essentials for medication safety. St. Louis: Elsevier Saunders

RECOMMENDED RESOURCES

Giangrasso, A. P., & Shrimpton, D. M. (2013). Dosage calculations: A multi-method approach. Boston: Pearson.

Pagana, K. D., & Pagana, T. J. (2013). Mosby’s diagnostic & laboratory test reference. St. Louis: Elsevier Mosby

Skidmore-Roth, L. (2013). Mosby’s drug guide for nursing students. St. Louis: Elsevier Mosby

University of Florida College of Medicine *Florida Physician* Fall 2008 Retrieved from http://floridaphysician.med.ufl.edu/2008/12/features/how-one-boy-changed-the-college-of-medicine/

University of Florida College of Pharmacy *Center for Drug Interaction Research and Education* Retrieved from http://www.druginteractioncenter.org/

Workman, M. L., LaCharity, L., & Kruchko, S. C. (2011). Understanding pharmacology: Essentials for medication safety (Study Guide). St. Louis: Elsevier Saunders

WEEKLY CLASS SCHEDULE

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| DATE | TOPIC/EVALUATION | ASSIGNMENTS/READING |
| 25  August | **PART I Overview of Pharmacology**  Introduction  Drug actions and body responses  Preparing and administration of drugs  Patient teaching | Syllabus; Workman preface & forward matter  Workman chapters 1 – 3 |
| 1  September | University Holiday – no class |  |
| 8  September | **PART II Math in Pharmacology**  Medical systems of weights and measures  Dosage calculations including IV solutions | Workman chapters 4 – 6 |
| 15 September | **Exam 1 (CG-28 12 noon – 2:00 PM)**  **PART III Clinical Categories and Uses of Drugs**  Pain and sleep | **Parts I & II Chapters 1 – 6**  (1200 – 1400 hrs in computer lab)  Workman chapter 7 |
| 22  September | Anti-Inflammatory  Antibacterial  Antiviral | Workman chapters 8 – 10 |
| 29 September | Antitubercular & Antifungal  Urine Output | Workman chapters 11 – 12 |
| 6  October | Antihypertensives  Heart Failure | Workman chapters 13 – 14 |
| 13  October | **Exam 2 (CG-28 12:30 – 2:30 PM)** | **Part III chapters 7 – 14**  (1200 – 1400 hrs in computer lab) |
| 20  October | Antidysrhythmics  Antihyperlipidemics | Workman chapters 15 – 16 |
| 27  October | Anticoagulants/ Antiplatelets  Antiasthmatics & other respiratory problems | Workman chapters 17 – 18 |
| 3  November | Nausea, Vomiting, Diarrhea & Constipation  Gastric Ulcers and Reflux | Workman chapters 19 – 20 |
| 10  November | **Exam 3 (CG-28 12 noon – 2:00 PM)** | **Part III chapters 15 – 20**  (1200 – 1400 hrs in computer lab) |
| 17  November | Antiseizures  Depression, Anxiety, Psychosis  Alzheimer’s and Parkinson’s Diseases | Workman chapters 21 – 23 |
| 24  November | Endocrine  Diabetes | Workman chapters 24 – 25 |
| 1  December | Glaucoma  Cancer | Workman chapters 26 – 27 |
| 8  December | **Exam 4 (CG-28 1:00 PM – 3:00 PM)** | **Part III chapters 21 – 27**  (1300 – 1500 hrs in computer lab) |

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| Approved: | Academic Affairs Committee:  General Faculty:  UF Curriculum Committee: | 06/00; 02/03; 09/09; 02/12  03/96; 02/03; 09/09; 03/12  04/96; 07/01; 10/09; 04/12 |