UNIVERSITY OF FLORIDA

 COLLEGE OF NURSING

 COURSE SYLLABUS

 Fall 2016

COURSE NUMBER NUR 3145

COURSE TITLE Pharmacology for Nursing

CREDITS 3

PLACEMENT BSN Program: 2nd Semester Upper Division

PREREQUISITES NUR 3129 Pathophysiology and Psychopathology

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

COREQUISITES NUR 3197 Introduction to Genetics and Genomics

# FACULTY Patsy Love, DNP, RN,CNOR

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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.

*Per College of Nursing Syllabus Format Guidelines 04/12/16:*

COURSE SCHEDULE

 Section Day Time Room

 05D5 Monday 12:50-3:20pm G114

 2D93 Monday 1:00-3:35pm POB 3083

E-Learning in Canvas is the course management system that you will use for this course. E-Learning in Canvas is accessed by using your Gatorlink account name and password at <https://elearning.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.

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.

*(end required language)*

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. Pharmacotherapeutics 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 discussion, written materials, and development & presentation of case studies.

LEARNING ACTIVITIES

 Readings, participation in discussion, case study analysis, and study questions.

EVALUATION METHODS/COURSE GRADE CALCULATION

Four examinations are each 20% of total grade. Examinations are not cumulative. An additional 10% of the course grade is provided by student presentations as assigned. In class assignments comprise 5% of the grade. Class participation also comprises 5% of the course grade.

MAKE UP POLICY

There is no opportunity to make up missed examinations. In the case of a missed examination, a zero will be entered as the grade and included in the calculation of the final grade.

FEEDBACK ON EXAMS

Students will receive feedback on each exam by the next class period following the exam. After feedback is provided, any student who would like further feedback may email the professor within 48 hours with the specific questions for which s/he is seeking clarification. No grade discussions are available after that period of time has passed. No individual grade discussions will occur during class time.

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>

*Per College of Nursing Syllabus Format Guidelines 04/12/16:*

PROFESSIONAL BEHAVIOR

The College of Nursing expects all nursing students to be professional in their interactions with patients, colleagues, faculty, and staff and to exhibit caring and compassionate attitudes. These and other qualities will be evaluated during patient contacts and in other relevant settings by both faculty and peers. The behavior of a nursing student reflects on the student's ability to become a competent professional nurse. Attitudes or behaviors inconsistent with compassionate care; refusal by, or inability of, the student to participate constructively in learning or patient care; derogatory attitudes or inappropriate behaviors directed at patients, peers, faculty or staff; misuse of written or electronic patient records (e.g., accessing patient information without valid reason); substance abuse; failure to disclose pertinent information on a criminal background check; or other unprofessional conduct can be grounds for disciplinary measures including dismissal.

UNIVERSITY POLICY ON ACADEMIC MISCONDUCT:

Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the UF Student Honor Code at <http://www.dso.ufl.edu/students.php>. Exam security: Students are required to provide their own privacy screen for all examinations administered via student laptops. No wireless keyboards or wireless mouse/tracking device will be permitted during examinations.

University and College of Nursing Policies:

Please see the College of Nursing website for a full explanation of each of the following policies: <http://nursing.ufl.edu/students/student-policies-and-handbooks/course-policies/>

Attendance

UF Grading Policy

Accommodations due to Disability

Religious Holidays

Counseling and Mental Health Services

Student Handbook

Faculty Evaluations

Student Use of Social Media

*(end required language)*

REQUIRED TEXTBOOKS\*

Lilley, L.L., Collins, S.R, & Snyder, J.S.(2016). Pharmacology and the Nursing Process, 8th ED. St. Louis: Elsevier Mosby.

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

\*Note – A drug guide of your choice is required in this course. There are several good drug guides available. Do not purchase a drug guide until after class discussion on the features and benefits of various drug guides are discussed. Thus, you will be informed to purchase the guide that works best for you.

RECOMMENDED TEXTBOOK & OTHER RESOURCES

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

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/

Required Supplies:

A laptop computer privacy screen is required for all exams taken in the classroom by laptop. Students are expected to bring a laptop and/or cell phone to all classes and to make use of these during class times to research questions raised during the in-class activities.

WEEKLY CLASS SCHEDULE

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| DATE | TOPIC | ASSIGNMENT |
| 22August | IntroductionPharmacologic principles part 1 | Syllabus, Chapters 1-4 |
| 29August | Pharmacologic Principles part 2 | Chapters 5-9 |
| 5September | LABOR DAY HOLIDAY | No assignment |
| 12September | Drugs affecting the autonomic nervous system | Chapters 18-21 |
| 19September | **EXAM I**Central nervous system agents part 1 | Chapters 10-12 |
| 26 September | Central nervous system agents part 2 |  Chapters 13-17 |
| 3October | Drugs affecting the cardiovascular system part 1 | Chapters 22-25 |
| 10October | Drugs affecting the cardiovascular system part 2Drugs affecting the renal system | Chapters 26-29 |
| 17October | **EXAM II**Drugs affecting the endocrine and reproductive system | Chapters 30-35 |
| 24October | Drugs affecting the respiratory system | Chapters 36-37 |
| 31October | Anti-infective and anti-inflammatory drugs part 1  | Chapters 38-40 |
| 7November | Anti-infective and anti-inflammatory drugs part 2 | Chapters 41-44 |
| 14November | **EXAM III**Chemotherapy, biologics, and immune modifiers part 1 | Chapters 45-46 |
| 21November | Drugs affecting the GI system and nutrition | Chapters 50-55 |
| 28November | Dermatologic, opthalmalogic, and otic drugsStudent presentations | Chapters 56-58 |
| 5December | Student presentations | None |
| 12December | **FINAL EXAM** | None |