UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

Fall 2017

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 Leslie Parker, PhD, ARNP, FAAN

Office hours: Mondays 10-12 and by appointment

Room 2227

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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

Section Day Time Room

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

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](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.

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, class activities, NCLEX-type question review, tests. Attendance is **strongly** encouraged. It is extraordinarily difficult to assimilate the large amount of clinical material presented without consistent attendance and several hours of dedicated study time each week.

LEARNING ACTIVITIES

Reading, listening, studying, and participation in class discussions and activities.

EVALUATION METHODS/COURSE GRADE CALCULATION

Five examinations are each 18% of the total grade. The fifth examination is cumulative and is 20% of total grade. Class presentations and participation are each 4% of the total grade.

MAKE UP POLICY

There is no opportunity to make up missed examinations. In the case of a missed exam, the following exam grade will be used to replace the missed exam (it will be counted twice), provided the professor has been notified and has granted approval (see note below). If more than one exam is missed, a zero will be entered as the grade for subsequent missed exams. The fifth exam (cumulative exam) must be taken, no grade substitutions will be done.

Note: The professor must be notified in advance if an exam is to be missed, the notification must include the reason for missing the exam. If no notice is given, a grade of zero will be entered. Students may not opt out of any exams.

FEEDBACK ON EXAMS

Students will receive group feedback on exams via Canvas 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 to schedule an appointment or to discuss 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>

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. 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

REQUIRED TEXTBOOKS\*

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

\*Note – A drug guide of your choice is required in this course. You don't have to purchase a drug guide. You may want to wait until after the first class, when we'll have a discussion on the features and benefits of various drug guides. There are several free apps and online drug guides available.

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:

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 lecture and in-class activities.

A laptop computer with a privacy screen is required for all exams.

WEEKLY CLASS SCHEDULE

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| DATE | TOPIC | ASSIGNMENT |
| 21  August | Introduction  Pharmacologic principles part 1 | Syllabus,  Chapters 1-4 |
| 28  August | Pharmacologic Principles part 2 | Chapters 5-9 |
| 4  September | Labor Day | None |
| 11  September | Drugs affecting the autonomic nervous system | Chapters 18-21 |
| 18  September | **EXAM I**  Central nervous system agents part 1 | Chapters 10-12 |
| 25  September | Central nervous system agents part 2 | Chapters 13-17 |
| 2  October | Drugs affecting the cardiovascular system | Chapters 22-27 |
| 9  October | Drugs affecting the renal system | Chapters 28-29 |
| 16  October | **EXAM II**  Drugs affecting the respiratory system | Chapters 36-37 |
| 23  October | Drugs affecting the endocrine and reproductive system | Chapters 30-35 |
| 30  October | Anti-infective and anti-inflammatory drugs part I | Chapters 38-40 |
| 6  November | Anti-infective and anti-inflammatory drugs part II | Chapters 41-44 |
| 13  November | **EXAM III**  Chemotherapy, biologics, and immune modifiers | Chapters 45-46 |
| 20  November | Drugs affecting the GI system and nutrition | Chapters 50-55 |
| 27  April | Dermatologic, opthalmalogic, and otic drugs | Chapters 56-58 |
| 4  December | **EXAM IV** | None |
| 11  December | **FINAL EXAM: CUMULATIVE** | None |

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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 |