UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

Fall 2018

COURSE NUMBER NUR 3145 Section (Parker 05D5)

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, NNP-BC, FAAN

Associate Professor

Office: HPNP 2227

352-273-9360

Office hours: Monday 12:00- 2:00pm and by appt

[parkela@ufl.edu](mailto:parkela@ufl.edu)

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 8:30-11:30pm G201

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, pharmacokinetics, 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, exams via Examsoft. Attendance is required. 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

|  |  |  |
| --- | --- | --- |
| ***Assignment/Exam*** | ***Dates*** | ***%*** |
| Class Participation (determined by completion of weekly quizzes) | See course schedule | 10% |
| Module Completion | See course schedule | 10% |
| NCLEX quizzes | See course schedule | 20% |
| Team Presentation | See course schedule | 10% |
| Midterm Exam via Examsoft | See course schedule | 25% |
| Final Exam via Examsoft | See course schedule | 25% |
| Total |  | 100% |

MAKE UP POLICY

There is no opportunity to make up missed examinations or quizzes. In the case of a missed exam/quiz, the following exam/quiz grade will be used to replace the missed exam/quiz (it will be counted twice), provided the professor has been notified and has granted approval (see note below). There will be no make-up final except under exceptional circumstances with joint approval by the faculty member and undergraduate program director.

Note: The professor must be notified in advance if an exam or quiz 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.

Note:  The average of the exam and quizzes (Midterm and Cumulative Final Exams & NCLEX quizzes 1-4) must be > 74% to pass the course.

FEEDBACK ON EXAMS

Students will receive group feedback on exams via Canvas 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

DISABILITY STATEMENT

Students who wish to obtain individual accommodations due to special learning needs must register with the University of Florida Disability Resources Center (DRC) **at the beginning of each semester**. Accommodations are not retroactive, therefore, students should contact the DRC at the beginning of each semester in the term for which they are seeking accommodations. The DRC may be contacted at 352-392-8565 so that appropriate accommodations may be made.  **Individual accommodations require time for the Disability Resources Center (DRC) to approve and the faculty to respond to any special learning needs**.  **Each semester**, it is the students’ responsibility to notify all their faculty of any special accommodations **once approval by the DRC for special accommodations has been made**.  <https://drc.dso.ufl.edu/>

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 are not required to purchase a drug guide and may want to wait until after the first class, when we will discuss 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 and quizzes.

WEEKLY CLASS SCHEDULE

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| --- | --- | --- |
| DATE | TOPIC | ASSIGNMENT |
| August 27th  Week 1 | Introduction  Pharmacologic principles part 1 | Syllabus,  Chapters 1-4 |
| September 3rd  Week 2 | Labor Day Holiday | None |
| September 10th  Week 3 | Pharmacologic Principles part 2 | Chapters 5-9 |
| September 17th  Week 4 | Drugs affecting the autonomic nervous system | Chapters 18-21 |
| September 24th  Week 5 | **NCLEX Exam I**  Central nervous system agents part 1 | Chapters 10-12 |
| October 1st  Week 6 | Central nervous system agents part 2  **Modules Completion due by 10am** | Chapters 13-17 |
| October 8th  Week 7 | Drugs affecting the cardiovascular system I  **NCLEX Exam II** | Chapters 22-25 |
| October 15th  Week 8 | Drugs affecting the cardiovascular system II  Drugs affecting the renal system | Chapters 26-29 |
| October 18th from 3-5pm | **MIDTERM EXAM** via Examsoft in the Testing Center |  |
| October 22nd  Week 9 | Drugs affecting the endocrine and reproductive system I | Chapters 30-33 |
| October 29th  Week 10 | Drugs affecting the endocrine and reproductive system II  Drugs affecting the respiratory system | Chapters 34-39 |
| November 5th 6  Week 11 | Anti-infective and anti-inflammatory drugs part I  **NCLEX Exam III** | Chapters 38-40 |
| November 12th  Week 12 | Veterans Day  Anti-infective and anti-inflammatory drugs part II  (Online lecture) | Chapters 41-44 |
| November 19th  Week 13 | Chemotherapy, biologics, and immune modifiers  Drugs affecting the GI system and nutrition I  **Team Presentations due 10am** | Chapters 45,46,50,51 |
| November 26th  Week 14 | Drugs affecting the GI system and nutrition II | Chapters 52-55 |
| December 3rd  Week 15 | Dermatologic, opthalmalogic, and otic drugs  **NCLEX Exam IV** | Chapters 56-58 |
| December 13th from 12-2pm | **FINAL EXAM** via Examsoft in the Testing Center | 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 |