UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

Spring 2016

COURSE NUMBER NUR 3145 – Section 3085

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 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

Mondays 4:00-7:00pm Room 1404

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://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.

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 25% of total grade. Examinations will be cumulative.

MAKE UP POLICY

There is no opportunity to make up a 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.

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>

REQUIRED TEXTBOOKS\*

Rosenjack-Burchum, J., & Rosenthal, L. D. (2016). Lehne’s pharmacology for nursing care. 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.

**Required Supplies: laptop computer privacy screen is required for all exams taken in the classroom by laptop.**

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/

WEEKLY CLASS SCHEDULE

|  |  |  |
| --- | --- | --- |
| DATE | TOPIC/EVALUATION | ASSIGNMENT |
| 11 January | Introduction | Syllabus, Lehne’s preface, Chapters 4, 5  Chapters 1-3 |
| 25 January | Drug classes, actions & therapeutics  Drug nomenclature  Preparing and administration of drugs  Safety and responsibility  Interactions  Drug-drug  Drug-food  Drug toxicity  Medication errors  Individual variations in drug responses  Life span considerations  Abbreviations  Medical systems of weights and measures  Dosage calculations including IV solutions  Safety and responsibility | Chapters 9 - 11  Refer to recommended textbook or other resources Chapters 6-8 |
| 1 February | Cholinergic agents  Adrenergic Agents | Chapters 17 – 19  Chapters 14-16 |
| 8 February | **EXAM I** |  |
| 15 February | Neurodegenerative Disorders  Neurologic agents  Pain | Chapter 23, 24, 26, 27, [31-36]  Chapters 20-22, 25,28-30, 71 |
| 22 February | Antihypertensives  Heart Failure  Antidysrhythmics  Angina  Diuretics  IV Fluids | Chapters 41, 42  Chapters 44-51  Canvas IV doc |
| 7 March | **EXAM II** |  |
| 14 March | Asthma  COPD  Peptic Ulcer Disease  Laxatives/constipation | Chapters 76  Chapters 78 – 80 |
| 21 March | Diabetes  Thyroid  Hypothalamic  Pituitary | Chapters 57-60\* |
| 28 March | **EXAM III** |  |
| 4 April | Rheumatoid arthritis  Gout  Bone mineralization  Immunizations  Antihistamine  Glucocorticoids | Chapters 67-75\* |
| 11 April | Infectious disease  Parasitic Diseases  Cancer | Chapters 83- 103\* |
| 18 April | Eye, Ear, Skin  Complimentary & Alternative therapies  Poisoning  Weapons of Biologic, Radiologic, and Chemical terrorism | Chapters 104 – 110\* |
| 25 April | **EXAM IV – Finals Week** |  |

\*Student presentations

University and College of Nursing Policies:

**PROFESSIONAL BEHAVIOR**

(Adapted from the UF COM Professionalism document)

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. Behavior of a Nursing student reflects on the student's individual’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., accession of patient information without valid reason); substance abuse; or other unprofessional conduct can be grounds for disciplinary measures including being asked to leave the classroom.

**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/index.php/sccr/process/student-conduct-honor-code/>. Students are required to provide their own privacy screen for all examination’s administered to student laptops. No wireless keyboards or wireless mouse/tracking device will be permitted during examinations.

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

Academic Honesty

UF Grading Policy

Accommodations due to Disability

Religious Holidays

Counseling and Mental Health Services

Student Handbook

Faculty Evaluations

Student Use of Social Media