UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

Spring 2015

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

Office hours: by apt

(e-mail my assistant Ms, Brown for an apt vbbrown@ufl.edu)

HPNP 3221

Phone: (352) 273-6327

Fax 352-294-8101

[bweber@ufl.edu](mailto:bweber@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

Mondays 9:35 am – 10:25 am Room G101

Tuesdays 8:30 am- 10:25 am 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. 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 discussion, written materials, and 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

MAKE UP POLICY

There is no opportunity to make up a missed examination.

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

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

RECOMMENDED TEXTBOOK & OTHER 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/READINGS |
| 6 Jan | **PART I Overview of Pharmacology**  Introduction | Syllabus; Workman preface & forward matter |
| 12-13 Jan | Drug actions and body responses  Preparing and administration of drugs  Patient teaching | Workman chapters 1 – 3 |
| 20 Jan | **PART II Math in Pharmacology**  Medical systems of weights and measures | Workman chapters 4 – 6 |
| 26-27 Jan | Dosage calculations including IV solutions |  |
| 2 Feb | **Exam I (CG-28 9:45 am – 11:45 am)** | Workman Chapters 1-6 |
| 3 Feb | Pain and sleep | Workman chapter 7 |
| 9-10 Feb | Anti-Inflammatory  Antibacterial  Antiviral | Workman chapters 8 – 10 |
| 16-17 Feb | Antitubercular & Antifungal  Urine Output | Workman chapters 11 – 12 |
| 23 Feb | **EXAM II (CG-28 1:00 pm – 3:00 pm )** | Workman chapters 7-12 |
| 24 Feb | Antihypertensives  Heart Failure | Workman chapters 13 – 14 |
| 2-3 Mar | **SPRING BREAK** |  |
| 9-10 Mar | Antidysrhythmics  Antihyperlipidemics | Workman chapter 15 - 16 |
| 16-17 Mar | Anticoagulants/ Antiplatelets  Antiasthmatics & other respiratory problems | Workman chapters 17-18 |
| 23-24 Mar | Nausea, Vomiting, Diarrhea & Constipation  Gastric Ulcers and Reflux | Workman chapters 19-20 |
| 30 Mar | **EXAM III (CG-28 9:45am – 11:45 am)** | Workman chapters 13-20 |
| 6-7 Apr | Antiseizures  Depression, Anxiety, Psychosis  Alzheimer’s and Parkinson’s Diseases | Workman chapters 21 – 23 |
| 13-14 Apr | Endocrine  Diabetes  Glaucoma  Cancer | Workman chapters 24-27 |
| 20 Apr | **EXAM IV (CG-28 9:45am – 11:45 am)** | Workman chapters 21-27 |

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

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