UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

SPRING 2014

COURSE NUMBER NUR 3145 SECTION 3085

COURSE TITLE Pharmacology for Nursing

CREDITS 3

PLACEMENT BSN Program: 2nd Semester

PREREQUISITE NUR 3129 Pathophysiology and Psychopathology

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

COREQUISITE AGR 4932 Introduction to Genetics and Genomics

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# FACULTY James Jessup, PhD, RN

# Associate Professor

# [jessujv@gmail.com](mailto:jessujv@gmail.com)

# HPNP 3201

# Office (352) 273-6370, Cell (352) 284-3260

# Office hours: Monday 1300 – 1500 and by appointment

DEPARTMENT CHAIR Joyce Stechmiller, PhD, ACNP-BC, FAAN

Associate Professor

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

HPNP 3230

Office: (352) 273-6394, Cell (352) 284-1801

Office Hours: By appointment

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

Monday 0935 – 1235 HPNP 1404

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

ATTENDANCE

Requirements for class attendance and make-up exams, assignments, and other work are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/att>endance. aspx.

Students are expected to be present for all scheduled classes, other learning experiences, and examinations. Students who have extraordinary circumstances preventing attendance should explain these circumstances to the course instructor **prior** to the scheduled class or as soon as possible thereafter. Instructors will then make an effort to accommodate **reasonable** requests. A grade penalty may be assigned for late assignments, including tests. Make-up exams may not be available in all courses.

ACCOMODATIONS DUE TO DISABILITY

Each semester, students are responsible for requesting a memorandum from the Disability Resource Center (<http://www.dso.ufl.edu/index.php/drc/>) to notify faculty of their requested individual accommodations. This should be done at the start of the semester.

COUNSELING AND STUDENT HEALTH

Students may occasionally have personal issues that arise on the course of pursuing higher education or that may interfere with their academic performance. If you find yourself facing problems affecting your coursework, you are encouraged to talk with an instructor and to seek confidential assistance at the University of Florida Counseling and Wellness Center, 352-392-1575, visit their web site for more information: <http://www.counseling.ufl.edu/cwc/>.

STUDENT HANDBOOK

Students are to refer to the College of Nursing Student Handbook for information about University & College of Nursing policies, Academic Honesty, and professional behavior.

<http://con.ufl.edu/currentstudents/e_docs/undergraduate%20handbook%20211.pdf>

<https://catalog.ufl.edu/ungrad/current/advising/info/student-honorcode.aspx#honesty>

**ACADEMIC HONESTY**

The University of Florida Student Conduct and Conflict Resolution Policy may be found at [http://www.dso.ufl.edu/sccr/honorcode.php](http://www.dso.ufl.edu/sccr/honorcode.php#_blank)

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, audiovisual materials, written materials, and presentation of case studies.

LEARNING ACTIVITIES

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

MAKE UP POLICY

There will be no make-ups for missed quizzes and exams. If a student misses an exam, the score on the final exam will be the score for the final exam and the missed exam.

EVALUATION METHODS/COURSE GRADE CALACULATION

3 unit examinations @ 25% = 75%

3 unit quizzes @ 5% = 15%

1 med math quiz @ 10%

Total 100%

\*An approximate turnaround grading/feedback time is 2 weeks from the time the assignment is due.

GRADING SCALE/QUALITY POINTS

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| --- | --- | --- |
| Letter Grade | Points | Quality Points |
| A | 95-100 | 4.0 |
| A- | 93-94 | 3.67 |
| B+ | 91-92 | 3.33 |
| B | 84-90 | 3.0 |
| B- | 82-83 | 2.67 |
| C+ | 80-81 | 2.33 |
| C | 74\*-79 | 2.0 |
| 74% is minimum passing grade | | |
| C- | 72-73 | 1.67 |
| D+ | 70-71 | 1.33 |
| D | 64-69 | 1.0 |
| D- | 62-63 | .67 |
| E | 61 or below | 0.0 |

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>

FACULTY EVALUATION

Students are expected to provide feedback on the quality of instruction in this course based on ten criteria.  These evaluations are conducted online at <https://evaluations.ufl.edu>.  Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open.  Summary results of these assessments are available to students at <https://evaluations.ufl.edu>.

REQUIRED TEXTBOOKS

Vallerand, A. H., Sanoski, C. A., & Deglin, J.H. (Eds.). (2013). ***Davis's drug guide for nurses*** (13th ed.). Philadelphia, PA: F. A. Davis Co.

Jessup, J.V. (2014) ***NUR 3145 Pharmacology for Nursing*** (16th ed.), packet available at the HSC Bookstore.

WEEKLY CLASS SCHEDULE

See calendar below

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| --- | --- | --- |
| **Day/Date** | **Topic** | **Readings** |
| Monday Jan 6  Lecture 1 | Introduction to Pharmacology  Pharmacogenomics/genetics  Medication Errors | Lecture notes  **Davis’s Drug Guide pp 9-27**  SAKAI Resources |
| Monday Jan 13  Lecture 2 | Medication Math Calculations  Pediatric Dose Calculations | Lecture notes  **Bring calculators** |
| Monday Jan 20  **MLK** | **HOLIDAY** | **NO CLASSES** |
| Monday Jan 27  Lecture 3  **QUIZ 1** | IV Fluids  IV Med Math Calculations  **Pharmacogenomics, Medication Errors**  Med Math Practice Problems | Lecture Notes  **Bring calculators**  SAKAI page |
| Monday Feb 3  Lecture 4 | Immune System Agents  **Medication Math Quiz** | Lecture Notes  **Bring calculators** |
| Monday Feb 10  Lecture 5 | Coagulation Modifier Agents | Lecture Notes |
| Tuesday Feb 11  **EXAM 1** | 0900 – 1000 CG 28 CG 28  DRC students 0830 – 1130 CG 58 | 50 questions on all above material |
| Monday Feb 17  Lecture 6 | Female and male reproductive agents  Psychotherapeutic Agents  Med Math Makeup quiz | Lecture Notes  If you are taking the math makeup quiz, bring calculators |
| Monday Feb 24  Lecture 7 | Anti-infective Agents | Lecture Notes |
| Monday Mar 3  **NO** | **CLASSES THIS WEEK** | **SPRING BREAK** |
| Monday March 10  Lecture 8  **QUIZ 2** | Cardiovascular Agents  Coags, Psych, Antibiotic Agents | Lecture Notes |
| Monday March 17  Lecture 9 | Cancer Chemotherapy Agents | Lecture Notes |
| Tuesday March 18  **EXAM 2** | 0900 – 1000 CG 28 CG 28  DRC students 0830 – 1130 CG 58 | 50 questions, all material since Exam 1 |
| Monday March 24  Lecture 10 | Gastrointestinal Agents  Diagnostic Agents | Lecture Notes |
| Monday March 31  Lecture 11  **QUIZ 3** | Central and Peripheral Nervous  System Agents  Chemo, GI, Diagnostic Agents | Lecture Notes |
| Monday April 7  Lecture 12 | Endocrine Agents  Agents of Bioterrorism | Lecture Notes |
| Monday April 14  Lecture 13 | Renal and Respiratory Agents | Lecture Notes |
| Monday April 21  Lecture 14 | New agents, review of semester |  |
| Thursday May 1  **FINAL EXAM** | 0925 - 1025 CG 28  DRC students 0900 - 1130 CG 58 | 50 questions, all material since Exam 2 |

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| Approved: | Academic Affairs Committee:  General Faculty:  UF Curriculum Committee: | 06/00; 02/03; 09/09  03/96; 03/03; 09/09  04/96; 05/03; 10/09 |