

Western Nevada College
Nursing 152: Foundations of Pharmacology
Course Syllabus ~ Fall 2011

Instructor:

Debi Ingraffia-Strong MSN, RN

Professor of Nursing



Western Nevada College
NURS 152: Foundations of Pharmacology in Nursing I ~ Fall 2011

Number of Credits: 1 (15 clock hours)

Transferability of Course within Nevada: Transfer – General Elective

Prerequisite: Admission to the nursing program

I. Course Description

Nursing 152 Foundations of Pharmacology in Nursing, 2 credits

Prerequisite: Math 120, 126 or higher. Must be an accepted nursing student or have consent of the instructor.

Provides students with an overview of pharmacology with an emphasis on clinical applications within the context of the nursing process and prioritization of needs; with special consideration given to the physiological, psycho/social, cultural, and spiritual needs of patients. Explores indications, modes of action, effects, contraindications and interactions for selected drugs. Specific nursing responsibilities related to drug administration are emphasized.

II. Course Objectives

Upon successful completion of the course the student will be able to:

1. Define terms, concepts and basic processes associated with physiologic effects of medication therapy.
2. Detail basic physiologic processes involved with absorption and elimination of medications.
3. Describe characteristics of major groups and selected individual medications in terms of the following: mechanism(s) of action; drug effects; therapeutic uses; side effects and adverse effects; toxicity and management of overdoses; interactions; and nursing responsibilities related to administration, monitoring, and teaching.
4. Utilize available resources to update personal knowledge of medications.
5. Utilize appropriate conversions to practice drug dosage calculations.
6. Describe legal/ regulatory issues related to medication administration.
7. Examine current literature on a pharmacological topic of interest and demonstrate college level writing skills and APA format in a 1-2 page paper.
8. Describe the nursing role in drug therapy as it relates to:
 - a) Promoting physiologic and psychological wellness
 - b) Documenting therapeutic or non-therapeutic effects
 - c) Selected legal and ethical aspects of medication therapy
 - d) Major issues/ concerns in medication therapy across the lifespan
 - e) Application of the nursing process
 - f) Nursing responsibilities related to documentation and patient teaching
 - g) Evaluate influences of medications on body systems using the nursing process and Maslows Hierarchy of Needs.

- ✚ Mechanics of medication administration will be covered in Nursing 137 laboratory (concurrent with Nursing 152)

III. WEB Course Requirements

This course utilizes WNOnline (Moodle) to provide handouts and communicate with students. Students will need to have the skills necessary to use the internet and a basic understanding of how to download and print documents from the internet. You should also know how to use a word processor that will save in an .rtf or .doc or html format to type and submit papers via the web. Tutorial link and frequently asked questions and answers regarding this online platform are available at <http://www.wnc.edu/wnconline/>

IV. Disability Support Services

Any student needing to request accommodations for a specific disability, counseling and/or testing support to please meet with the DSS coordinator (445-3275) at your earliest convenience to ensure timely and appropriate accommodations. The DSS office is located in Bristlecone building, Room 103.

V. Teaching-Learning Strategies

Required reading, pathophysiology assignments, lecture, pair-share activities, online discussion and activities, case study application, & audiovisual aids. In class dosage calculation practice and discussions.

VI. Credit Hour Designation

This course has 15 contact hours, with 15 hours actual lecture & classroom activity time

VII. Dress Code

Professional/casual attire (cannot wear student uniforms)

VII. Textbooks

Required Texts:

Lilley, L., Collins, S., Harrington, S., & Snyder, J. (2011) *Pharmacology and the Nursing Process*, (6th edition) St. Louis: Mosby.

Recommended Texts:

Rayfield, S., & Manning, L. *Pharmacology Made Insanely Easy* (2009) (3rd edition) GA: ICAN publishers.

Lilley, L., Collins, S., Harrington, S., & Snyder, J., (2011) *Study Guide for Pharmacology and the Nursing Process*, (6th edition) St. Louis: Mosby.

VIII. Methods of Evaluation

The student must pass all method of evaluation with 75% accuracy. These methods include:

- 3 examinations
- Kaplan Integrated Testing

- c. Kaplan focus tests with remediation
- d. Weekly quizzes
- e. Online assignments
- f. Written assignments
- g. Pharmacological paper

IX. Grading System

Grading of all exams, quizzes, and written assignments is done on a point basis. The letter grade is calculated from the number of points earned against the number of points possible. All exams are taken online in the WNC Computer lab (8-10am of the exam day)

- ✚ The student must pass the exams & quizzes with a score of 168 points which is 75% or better to earn the extra points from the pathophysiology, online assignments, and paper (refer to the WNC nursing student handbook).
- ✚ Any students caught cheating on an exam, quiz, or assignment will receive a 0. No exceptions. Refer to criteria for exam taking.
- ✚ Exam scores and item rationale/page number will be released at the completion of the exam in WNOnline. If the exam is taken in written format, grades will be released by 5:00 pm Friday of the exam week.
- ✚ There will be no extra credit questions on exams!

Kaplan Integrated testing:

- ✚ End of course Pharmacology Exam: A 75-question test that evaluates the understanding of the administration of medication as well as the nursing implications. Questions about parenteral therapies are also included.
- ✚ Kaplan pharmacology focus test are available throughout the semester with remediation available for all questions. Specific content TBA.

Exam 1	50
Exam 2	50
Final	75
Kaplan Integrated testing	35
Cumulative points from exams & quizzes must total 157~ equal to 75% in order for the additional points to count	210
Weekly in-class quizzes	50
Kaplan focus tests with remediation	25
Website posting	5
Pathophysiology questions	50 (10 pts x 5 assignments)
Pharmacological Paper	20
Total Possible Points Cumulative points must total 270 in order to attain a grade of C or better and progress within the nursing program	360 possible total points

- ✚ See WNC Student Handbook for grading policy & final grade distribution.

X. Written Assignments

- ✚ Refer to the student handbook for policies on legibility, completion of written assignments, and grading policies. APA format will be used for all references and citations.
- ✚ Students are expected to abide by the WNC Code of Student Conduct in all of their classes <http://www.wnc.edu/policymanual/3-4-4.htm>
- ✚ Plagiarism is a particularly serious violation, as outlined in the WNC policy manual, Academic Integrity section of code #3-4-5. It will not be tolerated!

Online assignments and participation in discussions:

- ✚ This is web-enhanced course. Active participation on WNConline is required. Please check WNConline daily for new postings, announcements, etc.
- ✚ 5 points possible for posting and explaining a website related to pharmacology on the discussion board by Oct. 18 2011.

Weekly quizzes:

- ✚ There will be 11 weekly 5 point quizzes throughout the semester. The lowest quiz score will be dropped at the end of the semester to total 50 points
- ✚ Quizzes will be taken in class throughout lecture; there will be no make-ups for quizzes if you are late or absent!

Pharmacological Paper:

- ✚ Examine current literature available through WNC library services and choose an article regarding a pharmacological topic of interest. Utilizing APA format write a one to two page summarization. See attached rubric for paper specifications.
- ✚ Paper will be submitted to the drop box in WNConline by October 30, 2011 by midnight. Three points will be subtracted from the student's potential score for each day the assignment is late or missing; unless the instructor grants a waiver for late work.

Pathophysiology assignments:

- ✚ Pathophysiology template and questions related to the content readings will be due at the start of each unit. The questions will be posted online for download and may be either typed or handwritten (see course calendar for due dates) - *these assignments will not be accepted late.*
- ✚ Content must be referenced; all references must be cited per APA format.

XI. Instructor Contact Information

Debi Ingraffia-Strong MSN, RN

Professor of Nursing

ingraffi@wnc.edu

Office: Cedar 231

Office hours are posted outside of my office door and on the WNC website.

I am always available by appointment!

Office: Cedar 231

Office phone: (775) 445-3334

Cell phone: (775) 901-0612

XII. Course Calendar ~ Outline of Topics & Readings

Date	Content Covered ~ Lecture/Class	Readings	Exam/Quiz	Assignments
8/30	<ul style="list-style-type: none"> Pharmacology Basics The nursing process & drug therapy 	Lilley et.al. pp. 1-5 Lilley et.al. pp. 6-15		
9/6	<ul style="list-style-type: none"> Pharmacologic principles 	Lilley et.al. pp. 16-35	Quiz 1	
9/13	<ul style="list-style-type: none"> Med challenges/elderly video Lifespan considerations Cultural/legal/ethical Gene therapy & Pharmacogenetics 	Lilley et.al. pp. 36-48 Lilley et.al. pp. 49-60 Lilley et.al. pp. 61-68		
9/20	<ul style="list-style-type: none"> Immunizations Vaccines Bioterrorism agents 	Lilley et.al. pp. 704-720	Quiz 2	Patho 1 due
9/27	<ul style="list-style-type: none"> Med Errors & Prevention Patient Education & Drug therapy OTC/Herbal/Dietary Supplements Substance abuse 	Lilley et.al. pp. 69-77 Lilley et.al. pp. 78-86 Lilley et.al. pp. 87-96 Lilley et.al. pp. 97-111	Quiz 3	
10/4	<ul style="list-style-type: none"> Exam 1 		Exam 1	
10/11	<ul style="list-style-type: none"> CNS Analgesics CNS Depressants & Muscle Relaxants 	Lilley et.al. pp. 149-150 Lilley et.al. pp. 151-177 Lilley et.al. pp. 196-209	Quiz 4	Web posting due 10/18/10 midnight
10/18	<ul style="list-style-type: none"> Antiparkinson drugs ANS drugs 	Lilley et.al. pp. 244-259 Lilley et.al. pp. 286-287-300	Quiz 5	Patho 2 due
10/25	<ul style="list-style-type: none"> Adrenergic drugs (cont') Adrenergic blockers 	Lilley et.al. pp. 288-300 Lilley et.al. pp. 301-311	Quiz 6	Pharm paper due 10/31/10 midnight
11/1	<ul style="list-style-type: none"> Cholinergic drugs Anticholinergics 	Lilley et.al. pp. 312-321 Lilley et.al. pp. 322-330	Quiz 7	
11/8	<ul style="list-style-type: none"> Exam 2 		Exam 2	
11/15	<ul style="list-style-type: none"> Antibiotics part 1 & 2 	Lilley et.al. pp. 582-622	Quiz 8	Patho 3 due
11/22	<ul style="list-style-type: none"> Antiviral medications Antitubercular drugs View Antitubercular video 	Lilley et.al. pp. 623-644 Lilley et.al. pp. 645-654	Quiz 9	Patho 4 due
11/29	<ul style="list-style-type: none"> Kaplan Integrated Testing 	KAPLAN EXAM 8-10	Kaplan	
11/29	<ul style="list-style-type: none"> Antifungal drugs Antimalarial/Antiprotozoal/Anthelmintic 	Lilley et.al. pp. 655-663 Lilley et.al. pp. 664-677	Quiz 10	
12/6	<ul style="list-style-type: none"> Antiinflammatory & Antigout drugs Immunosuppressant drugs 	Lilley et.al. pp. 678-691 Lilley et.al. pp. 694-703	Quiz 11	Patho 5 due
12/13	FINAL EXAM – Partially Cumulative Includes content from 11/16 through 12/7 and pharmacologic principles presented on 9/7		Final Exam	

XI. Grading Rubric for Pharmacological Paper ~ 20 points possible

Area	Criteria	Always 4	Mostly 3	Occas. 2	Seldom 1	None 0
Title page Intro	* APA format * Includes a hook * Plan/purpose of paper is stated					
Body of paper/paragraphs	* Topic sentence * Evidence supporting the topic is clear and persuasive * Transition/concluding sentence for each paragraph * Paraphrase of main points * Personal comment or call to action					
Conclusion						
Mechanics	* Spelling * Grammar * Punctuation * Proofreading					
Content insights	* Content insights * Thinking * Utilization of WNC library database					
APA format APA references	* APA in-text citations * APA reference page					