

Course Number and Title: NUR 3203 – Pathophysiology & Pharmacology II

Credit Hours: 3 Semester Hours

Placement: Junior Year
Fall 2009

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Course Description:

Part II of a comprehensive study of human pathophysiology and the application of pharmacology appropriate to the professional nurse role and builds on the acquired knowledge from NUR 3002. Students will demonstrate a cumulative knowledge of the application of pathophysiologic and pharmacologic processes to the care and promotion of health and wellness across the lifespan. Major drug classes and prototypical drugs are presented with specific application to nursing care within the nursing process. Dosage calculation is integral to the course.

Prerequisites: NUR 3002, 3012, 3023, 3123, 3133

Course Learning Outcomes:

Upon satisfactory completion of this course, the student will have met the following outcomes:

1. Applied previous knowledge about pathophysiology and pharmacotherapeutics.
2. Recalled etiology, pathogenesis, morphology, and clinical manifestations of selected diseases.
3. Related elements in Objective 2 to the nursing process.
4. Explained possible relationships of human pathology and pharmacotherapeutics among the Neuman Systems Model physiological, psychological, sociocultural, developmental, and spiritual variables.
5. Identified the five rights of drug administration.
6. Described basic principles of pharmacokinetics, pharmacodynamics, and pharmacotherapy.
7. Identified major types of adverse drug reactions and drugs commonly associated with them.
8. Determined developmentally appropriate nursing interventions relating to pharmacotherapy.
9. Recalled major drug classes and prototypical drugs within those classes.
10. Demonstrated calculation of correct doses for drugs based on route, age, weight, and other factors.
11. Examined professional values (legal and ethical) and the Christian worldview in relation to foundational skills.
12. Applied professional practice responsibility and accountability standards in pharmacologic intervention.

Textbooks/Learning Materials:

Required:

Garrett, L. (1995). *The Coming Plague* (reprint ed.). New York, NY: Penguin Books

Lehne. (2007). *Pharmacology for Nursing Care* (6th ed.). Saint Louis, MO: Saunders.

Lewis. (2007). *Medical Surgical Nursing*. (7th ed.). St Louis: Mosby

Nursing Central Software (To sign up, go to nursing.unboundmedicine.com and create an account from a PBA computer. See Nursing Student Handbook for more information.)

www.medscape.com

Additional Laboratory and Technological Resource

- Visible Human Dissector
- Nurse Pro Calc practice
- SoftwareforNurses.com learning modules

Teaching/Learning Methods:

1. Lecture and discussion
2. Computer exercises
3. Case Studies

Course Requirements:

1. Read all assigned material prior to class.
2. Attend scheduled classes.
3. Be prepared and participate in the class discussion.
4. Take exams and quizzes.
5. Complete all assignments.

Methods of Evaluation:

1. Online exercises 5%
2. Content and Review Quizzes 10%
3. Case study 5%
4. 4 Tests 55%
5. Final examination 25%
6. ATI Pharmacology test See below
7. E-college discussion Extra Credit

ATI Pharmacology

At the end of the course students will take the ATI Pharmacology test. The final grade in the course will be adjusted according to the following table. Students must pass the test with at least level 2 to pass the course.

Score achieved	Level 3 1 st attempt	Level 2 1 st attempt	Level 2 2 nd attempt	Level 2 3 rd attempt
Points assigned	+1%	+0%	-1%	-2%

Attendance:

Attendance is required. All excused absences from class must be reported. Participation performance will not be penalized for excused absences. Tests will only be made up for excused absences and must be made up within one week. Refer to Student Handbook.

Grading Scale:

The following grading scale will be used for all School of Nursing courses. Students must achieve a minimum of a C in each nursing course. This course will require a minimum of a 75% average for all examinations to receive a final grade of “C” in the course.

A	93-100
A-	90-92
B+	87-89
B	84-86
B-	82-83
C+	79-81
C	75-78
D	65-74
F	64-Below

Additional Policies:

1. Attendance is required. Three unexcused absences will result in loss of any grade curving. Illness is not considered excused.
2. Check email and access E-college every day.
3. Students are expected to have completed the required reading and projects in the study guide. In addition, it is expected that students will review, as needed, content from previous courses that has application to the current nursing topics (e.g. anatomy/physiology, pathophysiology, pharmacology, human growth and development, etc.).
4. Students who miss class on the same day of an exam in another course but show up to take the exam will lose all class attendance and participation points.
5. Students found text messaging during classes will be required to leave their phones with the professor during class time for the duration of the semester.
6. The following policies are to be followed according to the current edition of the Navigator:
 - (i) Computer Usage Policy
 - (ii) Dress Code: Standards of Dress and Personal Appearance
 - (iii) Academic Standards of Conduct: for the Community Value System and the Five Core Values of the PBA Community as well as descriptions of infractions of the standards and the discipline process.
1. The following policies are to be followed according to the current edition of the PBA School of Nursing Handbook
 - (iv) Scholarship and Integrity, p 19
 - (v) Professional Behavior and the Care of others, p 22
 - (vi) Theory, Laboratory, Practicum Attendance and Assignment Submission, p 22 – 23
 - (vii) Students with Disability, p 29

Week	Content	Reading
1 – 2	Antibiotics	Lehne, 948 – 1063 Garret, Chapter 7 Online exercise 1 A&P test
3	Cellular biology and alterations Genetic basis of Disease	Test 1: Antibiotics and Genetics Lewis, 213 – 218 Garret, Chapter 8

4 – 5	Endocrine Diabetes, Thyroid, and other Oral hypoglycemics Insulin Thyroid Hormone	Lehne, 646 - 685 Garret, Chapter 9 Lewis, 1234 – 1322 Online exercise 2
6 – 7	Renal: Nephrotic Syndrom, ATN, Renal failure Musculoskeletal: Osteoporosis, Osteoarthritis	Lehne, 436 – 453, 847 – 865 Garret, Chapter 10 Lewis, 1136 – 1233 Test 2: Genetics and Endocrine, Renal, Musculoskeletal Online exercise 3
8 – 10	Cardiovascular Hypertension CAD Cholesterol Angina Pectoris Heart Failure Dysrhythmias	Midterm Lehne, 454 – 614 Lewis, 739 – 925 Garret, Chapter 11, 12
11 – 12	GI Esophagus, Stomach Large, Small intestines, IBD Liver, Pancreas, Gall Bladder	Online exercise 4 Test 3: Cardiovascular and Cholesterol Lehne, 891 – 924 Lewis, 926 – 1135 Garret, Chapter 13 Case Study Due
13 – 14	Neurologic System Pain, Sleep, Sensory Function Seizures, Dementia Alterations of Movement Extrapyramidal Motor Syndromes Brain trauma Cerebrovascular Diseases Meningitis, Encephalitis Multiple Sclerosis, Myasthenia gravis, ALS, Huntington's disease,	Test 4: GI and Neuro Lehne, 181 – 398 Lewis, 1441 – 1613 Garret, Chapter 14, 15 Online exercise 5
15	HIV and STIs	Lehne, 1064 – 1114
Finals		Final

Assignments:

Online Exercises:

There will be online review exercises. They will be administered online and may be done in a group. The homework assignments have the same kinds of questions that will be used on the midterm and final.

Tests

Administered using Teachandtrack. Tests are cumulative from Patho-Pharm I and Health Assessment.

A&P Test

This will test your recall and command of basic anatomy and physiology.

Final Examination:

The final examination will be held during the normal final exam period. The final is comprehensive.

Case Study:

Case studies will be assigned in class. Students will discuss their case studies in groups and present them in class.

Medscape assignment:

Students will find a medscape article that discusses a topic covered in Patho-Pharm II and write a small paper summarizing the article and pointing out any similarities or differences from what was covered in class.

Extra Credit:

Up to 5% extra credit may be earned by thoughtful and meaningful participation in E-college bulletin board discussions regarding *The Coming Plague* and other pertinent topics. Length does not necessarily correlate with quality. In order to obtain all five points, students must consistently participate from the beginning of the semester. The extra credit points may raise your grade by a partial grade (B to B+, etc.) but will not raise a failing grade to a passing grade.