

OTTERBEIN COLLEGE  
Department of Nursing  
Graduate Studies in Nursing  
Summer 2009

COURSE: Nursing 666-OL

TITLE: Clinical Pharmacology and Therapeutics

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CREDIT: 5 credit hours

SCHEDULE: On-line course

PREREQUISITE: Admission to Graduate Studies in Nursing

COURSE DESCRIPTION:

Presents the fundamentals of pharmacokinetics and pharmacodynamics and the pharmacology of drugs affecting: a) infectious disease; b) cardiovascular and respiratory disease; c) gastrointestinal disease; d) endocrine and metabolic disease; e) rheumatic disease; f) neurological and psychological disease; g) disease of the eye; h) skin disease; and I) general disorders. Includes essentials of drug action, clinical usage of select drugs and rationale for drug therapy by relating the physiologic factors of disease process to drug mechanisms.

COURSE OBJECTIVES:

The student will:

1. Describe the principles of pharmacology, including pharmacokinetics and pharmacodynamics for broad categories of drugs
2. Describe factors influencing absorption, persistence, distribution, metabolism and excretion of drugs used as pharmaceuticals

3. Apply concepts of drug interactions to identify selected drug interactions that are potentially dangerous
4. Differentiate the actions and side effect of specific drugs from idiosyncratic and allergic reactions
5. Describe the relationship between pharmacologic agents and pathophysiology.
6. Identify the components of a written prescription and state and federal laws that regulate the dispensing of various classes of drugs
7. Practice writing prescriptions, with attention to client identification, medication, dose, route frequency, duration and labeling information
8. Describe the requirements for prescriptive authority as an advanced practice nurse in the state of Ohio and other states.
9. Analyze the components of a successful therapeutic regime with respect to client motivation, adherence, polypharmacy and cost effectiveness.
10. Describe appropriate patient education for specified pharmacologic agents.

#### LEARNING OPPORTUNITIES

1. On-line content presentations
2. Assigned textbook/journal readings
3. Direct electronic correspondence with faculty
4. Case studies

#### EVALUATION METHODS

A minimum of 77% (C+) is required for all graduate coursework. If a course grade lower than a C+ is earned, the course must be repeated in order to enroll in subsequent nursing courses. Students must have a cumulative grade point average of at least 3.0 (B) to receive the Master of Science in Nursing degree.

#### Examinations

1. Pharmacodynamics/kinetics	15 points
2. Musculoskeletal	15 points
3. Respiratory	15 points
4. Women's & Men's Health	15 points
5. GI	20 points
6. Topical Agents	15 points
7. Central Nervous System	30 points
8. Cardiovascular	30 points
9. Anti-infectives	25 points
10. Alternative/Miscellaneous	15 points
11. Legal/Ethics/Fiscal	15 points
12. Endocrine	20 points
13. Nutrition	10 points
14. Special populations: geriatrics, pregnancy, pediatrics	15 points

#### Written Assignments

Case study

25 points

280 Total Course Points