COURSE: Nursing 666-OL
TITLE: Clinical Pharmacology and Therapeutics

FACULTY:
Pat Keane, PhD, RN, CNP
Professor
Office: Science Rm. 445 D
Email: Pkeane@otterbein.edu
Phone Work: 614-823-1353

Marjorie Vogt, PhD, RN, CNP
Associate Professor
Office: Science, Rm. 436 E
Email: Mvogt@otterbein.edu
Phone Work: 614-823-1426

Jackie Haverkamp, MSN, RN
Instructor
Office: Science Rm. 445 A
Email: Jhaverkamp@otterbein.edu
Phone Work: 614-823-1628

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