UNIVERSITY COLLEGE of the FRASER VALLEY

COURSE IMPLEMENTATION DATE: January 2006
COURSE REVISED IMPLEMENTATION DATE: September 2007
COURSE TO BE REVIEWED: January 2010
(Four years after implementation date) (MONTH YEAR)

OFFICIAL COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.
Shaded headings are subject to change at the discretion of the department and the material will vary - see course syllabus available from instructor

FACULTY/DEPARTMENT: **Nursing**

HSC 116	**HSC 114**	**3**
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS

Nursing Pharmacotherapeutics
COURSE DESCRIPTIVE TITLE

CALENDAR DESCRIPTION:

In this course important concepts and principles of pharmacotherapeutics will be presented. Nursing pharmacotherapeutics involves "the use of drugs to diagnose, prevent, or treat disease or to prevent pregnancy" (Lehne, 2003. p. 1). The main drug classifications will be discussed in relationship to pharmacokinetics, pharmacodynamics, and the nursing process. Major drug classifications will be discussed in connection to their effects on particular body systems. Emphasis will be given to the nursing management of individuals receiving specific drug therapy with a focus on relevant nursing implications that address the legal, ethical, developmental, physiological, psychosocial, spiritual, and cultural aspects of pharmacology.

PREREQUISITES: **HSC 110**
PRE- or COREQUISITES: **HSC 112**

SYNONYMOUS COURSE(S)
(a) Replaces: **HSC 114** *(Course #)*
(b) Cannot take: _____ *(Course #)* for further credit.

SERVICE COURSE TO: _____ *(Department/Program)*
_____ *(Department/Program)*

TOTAL HOURS PER TERM: **42**
STRUCTURE OF HOURS:

Lectures:	**42**	Hrs
Seminar:		Hrs
Laboratory:		Hrs
Field Experience:		Hrs
Student Directed Learning:		Hrs
Other (Specify):		Hrs

TRAINING DAY-BASED INSTRUCTION
LENGTH OF COURSE: _____
HOURS PER DAY: _____

MAXIMUM ENROLLMENT: **36**
EXPECTED FREQUENCY OF COURSE OFFERINGS: **Fall & Winter Semester**

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	☐ Yes	☒ No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	☐ Yes	☒ No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	☐ Yes	☒ No

AUTHORIZATION SIGNATURES:

Course Designer(s): _____ Chairperson: _____ *(Curriculum Committee)*

Department Head: _____ Dean: _____

PAC Approval in Principle Date: PAC Final Approval Date: Apr. 27, 2007

LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:

At the conclusion of this course, students will:
1. Understand the processes of pharmacokinetics and pharmacodynamics.
2. Demonstrate the ability to apply the principles of pharmacokinetics and pharmacodynamics to the major drug classifications.
3. Understand nursing responsibilities regarding the legalities and ethics of administering medications.
4. Apply the nursing process in relation to pharmacotherapeutics.
5. Describe patient teaching related to pharmacotherapy.
6. Integrate knowledge of developmental, physiological, psychosocial, spiritual, and cultural aspects to nursing practice and pharmacotherapeutics.

METHODS:

Lecture
Group Discussion
Student Presentation
Guest Speakers

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Credit can be awarded for this course through PLAR (Please check:) ☒ Yes ☐ No

METHODS OF OBTAINING PLAR:

Challenge Exam

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]

Lehne, R. A. (2003). Pharmacology for nursing care (4th ed.). Toronto: W. B. Saunders.

Deghin, J. H., & Vallerand, D. H. (2003). Davis's drug guide for nurses (8th ed.). Philadelphia: W. B. Saunders.

SUPPLIES / MATERIALS:

STUDENT EVALUATION:

[An example of student evaluation for this course might be:]

In-class Quizzes & Assignments	25%
Midterm Exam	35%
Final Exam	40%
Total	100%

COURSE CONTENT:

[Course content varies by instructor. An example of course content might be:]

1. Introduction to Nursing Pharmacotherapeutics

   Pharmacokinetic and pharmacodynamic processes
   Interrelationship of pharmacology, nursing process and patient teaching
   Principles of drug administration
   Legal, ethical, developmental, physiological, psychosocial, spiritual and cultural considerations in pharmacology

2. Drugs affecting the Central Nervous System

   Drug Classification:
   Opioid and opioid antagonist
   Analgesics-antipyretics-antiinflammatory and related drugs
   Antianxiety and Sedative-hypnotic drugs
   Antiseizure Drugs
   Antiparkinson Drugs
   Skeletal Muscle Relaxants

Anesthetics
Central Nervous System Stimulants

3. Drugs affecting the Autonomic Nervous System

Drug Classification:
Adrenergic Drugs
Antiadrenergic Drugs
Cholinergic Drugs
Anticholinergic Drugs

4. Drugs affecting the Autonomic Nervous System

Drug Classification:
Hypothalamic, Pituitary and Adrenal Hormones
Corticosteroids
Thyroid and Antithyroid Drugs
Hormones that regulate Calcium and Bone Metabolism
Antidiabetic Drugs
Estrogens, Progestins, Hormonal Contraceptives
Androgens and Anabolic Steroids

5. Drugs affecting the Respiratory System

Drug Classification:
Bronchodilators
Antihistamines
Nasal decongestants and Antitussives

6. Drugs affecting the Cardiovascular and Renal Systems

Drug Classification:
Cardiac Glycosides
Antidysrhythmic Drugs
Antianginal Drugs
Antihypertensive Drugs
Peripheral Vasodilators
Diuretics
Dyslipidemic Drugs

7. Drugs affecting the Gastrointestinal System

Drug Classification:
Antipeptic and Antiacid Reflux Drugs
Laxatives and Cathartics
Antidiarrheal Drugs
Antiemetics

8. Drugs affecting Hematologic and Immune Systems

Drug Classification:
Beta-Lactam Antibacterials: Penicillins, Cephalosporins and Others
Aminoglycosides and Fluoroquinolones
Tetracyclines, Sulfonamides, and Urinary Agents
Macrolides and Miscellaneous Agents
Antituberculor Drugs
Antifungal Drugs
Antiparasitic Drugs
Hematopoietic and Immunostimulant Drugs
Immunosuppressants
Anticolgulants

9. Drugs affecting the Integumentary, Ophthalmic, and Otic Systems

Drug Classification:
Antiglaucoma Agents
Ophthalmic Corticosteroids
Otic Antiinfectives
Topical Skin Agents