

Global Learning Semesters

Course Syllabus

Course: NUR-216 Pharmacology in Nursing

Department: Life and Health Sciences

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
NUR-216	Pharmacology in Nursing	3
Semester Offered	Contact Hours	Prerequisites
Please contact us	42-45	CHEM-104, BIOL-110
Department	Level of Course	Language of Instruction
Life and Health Sciences	Lower Division	English

Course Description

The aim of the course is to examine the principles of drug administration and documentation, appropriate use, therapeutic effect, toxicity, side effects, therapeutic and toxic interactions, dosages and drug calculations. Cultural and lifespan considerations with regard to client medications are also considered on the course. Applicable oral, parental and topical prototype drugs are presented for each classification. Case studies are used to enhance the application to clinical practice. The course format is 3h lectures per week.

Prerequisites

CHEM-104, BIOL-110

Topic Areas

1. General aspects of pharmacology.
2. Pharmacodynamics and pharmacokinetics
3. Pharmacology in the medical office
4. Basics of pharmacology: understanding drug usage, reading, interpreting and documenting medications.
5. Mathematics for Pharmacology and dosage calculations, measurement systems and their equivalents, converting between measurement systems. Reading drug labels
6. Calculations of non parental dosages. Calculations of parental and special application.
7. Medication administration, general principles of medication administration. Enteral routes, percutaneous and parental routes.
8. Pharmacology for multi system application, analgesics and anti inflammatory and antipyretics.
9. Immunizations and medications for immune system diseases.
10. Antimicrobial / antifungals / antivirals
11. Antineoplastics
12. Nutritional supplements and alternative medicines.
13. Medications related to body systems, endocrine system conditions. Sensory system conditions.
14. Digestive system disorders, respiratory tract disorders, circulatory disorders: medication.
15. Urinary tract infections, reproductive system condition. Neurological conditions: medication.
16. Mental health disorders: medication; drugs of abuse and misuse.

Readings and Resources

Required Textbooks

1. Deglin, H.D; Vallerand, (2002) Davis' drug Guide for Nurses (Book with CD-ROM for windows and Macintosh 2.0) 8th Edition.
2. Eugenia, M; Fulcher, R.; Dubeannsky Soto, C.; Robrt, M.; Bartolomucci Boyd, L.R (2002) :W.B Saunders
3. Turley, M.S.; Dirckx, H.J. (2002)Understanding Pharmacology for Health Professional : August, Publisher: Prentice Hall 3rd ed. ISBN 0130417424

Recommended Textbooks

1. Brody, T. M., Larner, J. and Minneman, K.P. (eds.) (1998) Human Pharmacology: Molecular to Clinical. 3rd ed. St. Louis: Mosby
2. Goodman, L.S. et al (eds.) (1996) Goodman and Gilman's Pharmacological Basis of Therapeutics. 9th ed. New York: McGraw-Hill
3. Galbraith, A. et al (1999) Fundamentals of Pharmacology: a Text for Nurses and Health Professionals. London: Longman
4. Lilley, L. L. et al (1998) Pharmacology and the Nursing Process. 2nd ed. St. Louis: Mosby
5. Luker, K. A. and Wolfson, D.J. (eds.) (1999) Medicine Management for Clinical Nurses. London: Blackwell Science
6. Luty, J. and Harrison, P. (1997) Basic and Clinical Pharmacology Made Memorable. Edinburgh: Churchill Livingstone
7. Neal, M. J. (1997) Medical Pharmacology at a Glance. 3rd ed. Oxford: Blackwell Science.
8. Rang, H. P. et al (1999) Pharmacology. 4th ed. Edinburgh: Churchill Livingstone
9. Reid, J. L. et al (1996) Lecture Notes on Pharmacology. 5th ed. Oxford: Blackwell Science
10. Taylor, M. and Reide, P. (1998) Pharmacology - Mosby's Crash Course. London: Mosby
11. Trounce, J. R. (1999) Clinical Pharmacology for Nurses. 16th ed. Edinburgh: Churchill Livingstone