

Global Learning Semesters

Course Syllabus

Course: NUR-230 Pathophysiology

Department: Life and Health Sciences

Host Institution: University of Nicosia, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
NUR-230	Pathophysiology	3
Semester Offered	Contact Hours	Prerequisites
Please contact us	42-45	BIOL-105, BIOL-106, BIOL-209
Department	Level of Course	Language of Instruction
Life and Health Sciences	Lower Division	English

Course Description

This course aims to deliver the basic concepts of pathophysiology and to explain both the functional and structural changes caused by disease in tissues and organs. Its goal is to provide a foundation for students to develop a basic understanding of pathophysiology and disease and how the disease processes affect patients' health and wellbeing. Heavy emphasis is placed on the most common and serious diseases. Case studies allow students to relate the clinical manifestations, diagnosis, and treatment of a specific disease processes encountered in primary care settings with emphasis on the corresponding changes of historical and physical findings, laboratory values, diagnostic tests and histopathological findings. The format of the course will be 3h lectures and 1 hour case studies/week applied to nursing and looking at diagnostic tests and histopathological findings related to specific diseases.

Prerequisites

BIOL-105, BIOL-106, BIOL-209

Topic Areas

1. Introduction to pathology and disease processes of the most common and significant diseases and diagnostic procedures
2. Inflammation, healing and repair.
3. The skin and skin diseases
4. The immune system, immune disorders and infectious diseases
5. Blood disorders, thrombosis
6. Neoplasia
7. Paediatric Diseases
8. Diseases of organ systems (blood vessels, heart, hematopoietic and lymphoid systems, lungs and the respiratory track, the kidney, oral cavity and gastrointestinal tract).
9. The liver and the biliary tract
10. The pancreas
11. The male and female genital/reproductive systems, the female breast.
12. The endocrine system
13. The musculoskeletal system
14. The nervous system
15. Genetic diseases

16. Sexually transmitted diseases

Readings and Resources

Required Textbook

1. Pathophysiology: the biologic basis for disease in adults and children (4th edition, 2002) St. Louis: Mosby
2. Color Textbook of Histology by Leslie P. Gartner, James L. Hiatt, Publisher: W B Saunders Co; 2nd edition (March 9, 2001) ISBN: 0721688063
3. Stevens, A. and Lowe, J. (1997) Human Histology. 2nd ed. London: Mosby

Recommended Textbooks

1. Robbins Pathologic Basis of Disease by Ramzi S. Cotran, Vinay Kumar, Tucker Collins, Stanley L. Robbins, Bill Schmitt (Editor) W B Saunders Co; ISBN: 072167335X; 6th edition (January 15, 1999)
2. Huether, S. E. and McCance, K. L. (1999) Understanding Pathophysiology. 2nd ed. St. Louis: Mosby
3. Kumar, V., Cotran, R.S. and Robbins, S.L. (1997) Basic Pathology. 6th ed. Philadelphia: W.B. Saunders
4. Lakhani, S.R., Dilly, S.A. and Finlayson, C.J. (1998) Basic Pathology: an Introduction to the Mechanisms of Disease. 2nd ed. London: Edward Arnold
5. McCance, K. and Huether, S. E. (1998) Pathophysiology: the Biological Basis for Disease in Adults and Children. 3rd ed. St. Louis: Mosby
6. Mera, S. L. (1997) Understanding Disease: Pathology and Prevention. Cheltenham: Stanley Thornes.
7. Neal, M. J. (1997) Medical Pharmacology at a Glance. 3rd ed. Oxford: Blackwell Science
8. Nowak, T. J. and Hanford, A. G. (2000) Essentials of Pathophysiology: Concepts and Applications for Health Care Professionals. 2nd ed. Maidenhead: McGraw-Hill
9. Price, S. A. and Wilson, L. M. (eds.) (1997) Pathophysiology: Clinical Concepts of Disease Processes. 5th ed. St. Louis: Mosby
10. Vardaxis, N.J. (1995) Pathology for the Health Sciences. Edinburgh: Churchill Livingstone