



Course Code NURS-230	Course Title Pathophysiology	ECTS Credits 6
Prerequisites NURS-105	Department Life & Health Sciences	Semester Spring
Type of Course Required	Field Nursing	Language of Instruction English
Level of Course 1 st Cycle	Lecturer(s) Dr Edna Yamasaki Patrikiou	Year of Study 2 nd
Mode of Delivery Face-to-face	Work Placement N/A	Co-requisites None

Objectives of the Course:

The main objectives of the course are to:

- Deliver the basic concepts of pathophysiology and to explain both the functional and structural changes caused by disease in tissues and organs.
- Provide a foundation for students to develop a basic understanding of pathophysiology and disease and how the disease processes affect patient's health and wellbeing
- Use case studies to allow the students to relate the clinical manifestations, diagnosis and treatment of a specific disease process encountered in primary care settings with emphasis on the corresponding changes of historical and physical findings, laboratory values, diagnostic tests and histopathological findings

Learning Outcomes:

After completion of the course students are expected to be able to:

- Identify the signs and symptoms associated with the most common and specific diseases encountered in care
- Analyze the effects of life style, poverty and lack of primary care on the natural course and pathology of selected diseases
- Identify the importance of the role of the nurse in preventing the development and spreading of certain types of disease through Health Promotion/Teaching initiatives
- Explore the impact of nursing care strategies in hospitals as well as community settings in containing or disrupting the spreading of selected diseases
- Understand and discuss the importance of scientific enquiry and research findings, regarding new therapeutic interventions in the treatment of selected diseases
- Utilize knowledge of pathophysiology of disease in the application of nursing care and the education of the patient.

Course Contents:

- Introduction to pathology and disease processes of the most common and significant diseases and diagnostic procedures
- Cell tissue and function
- Cancer
- Hematopoietic Function
- Infection, inflammation and immunity
- Circulatory function
- Respiratory function
- Kidney and urinary tract function
- Gastrointestinal and hepatobiliary function
- Endocrine system
- Nervous system
- Genitourinary and reproductive function
- Musculoskeletal function
- Integumentary function

Learning Activities and Teaching Methods:

Lectures, Clinical cases and assignments

Assessment Methods:

Laboratory Practical Sessions, Tests, Final Examination

Required Textbooks / Reading:

Title	Author(s)	Publisher	Year	ISBN
Fundamentals of applied pathophysiology	Muralitharan Nair and Ian Peate	Wiley-Blackwell	2009	978-0-470-51795-6
Clinical applications of pathophysiology	Valentina Brashers	Mosby, Elsevier	2006	978-0-323-04530-8

Recomended Textbooks / Reading:

Title	Author(s)	Publisher	Year	ISBN
Pathophysiology, the Biologic Basis of Disease in Adults and Children	Kathryn McCance and Sue Huether	Elsevier, Mosby	2006	978-0-3230-3507-1