

MScN-PHCNP Program, York University

NURS5810 3.0: Pathophysiology for Nurse Practitioners

Calendar Course Description

Examines the concepts of pathophysiology which guide the practice of advanced nursing practice. Explores pathophysiological changes in individuals in a primary health care setting by taking into account their age, acuity, chronicity, and evolution of the conditions.

Pre/co-requisite: None

Seminar: 3 hours/week

Expanded Course Description

This course examines the concepts of pathophysiology which guide the practice of advanced nursing practice. Through an overview of human physiology and pathophysiology, it explores pathophysiological changes in individuals in a primary health care setting by taking into account their age, acuity, chronicity, and evolution of the conditions.

Course Competencies

Upon completion of this course, students will:

1. Synthesize knowledge of the pathophysiology of principal systemic disorders including the musculoskeletal, cardiovascular, respiratory, endocrine, reproductive, renal, tegumentary, gastrointestinal and nervous systems essential to the formulation of differential diagnosis (re: higher level of thinking- analyze discriminate and compare diseases based on pathophysiological concepts)
2. Analyze and interpret diagnostic and imaging tests based on pathophysiological concept.
3. Use pathophysiological concepts to explain epidemiological and geographical disease patterns in Ontario.
4. Explain the environmental and occupational factors influence on disease progression
5. Discuss the role of the genetics essentials in assessing risk factors for disease prevention in primary health care

Pathophysiology Modules:

1. Infectious Disease
2. Disorders of the Skin
3. Cardiovascular /Respiratory Disorders
4. Gastrointestinal Disorders
5. Musculoskeletal Disorders
6. Neurological, Mental Disorders and Stress
7. Infectious Disease
8. Disorders of the Skin
9. Cardiovascular /Respiratory Disorders
10. Gastrointestinal Disorders
11. Musculoskeletal Disorders

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12. Neurological, Mental Disorders and Stress
13. Renal and Urinary Disorders
14. Endocrine and Metabolic Disorders
15. Nutrition and Hematological Disorders
16. Reproductive, Pediatric and Childhood Disorders
17. Disorders of aging and geriatric populations
18. Environment and Occupational related disorders

Evaluation

1. Pathophysiology research paper (15 pages maximum) - 30%
A scholarly paper integrating current literature related to a clinically-relevant question for nurse practitioners with a focus on pathophysiology. This paper requires critical appraisal of health care literature and emphasizes an evidence-based nursing approach.
2. Midterm exam - 30% of the final mark
Multiple choice, short answer, case scenario analysis
3. Final exam - 40% of the final mark.
Multiple choice, short answer, case scenario analysis