



COURSE OUTLINE: ENP114 - PATH. CONCEPTS

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Course Code: Title	ENP114: PATHOPHYSIOLOGICAL CONCEPTS IN C.C.
Program Number: Name	3044: ENHANCED PRACTICE
Department:	BSCN - NURSING
Academic Year:	2022-2023
Course Description:	This course will be a general review of common pathophysiological conditions but will introduce learners to the important theoretical body systems and clinical components covered in a Critical Care Nursing Program. Topics include: homeostasis, acid-base balance, blood gases, shock, endocrinology, blood components and immunology.
Total Credits:	3
Hours/Week:	3
Total Hours:	42
Prerequisites:	ENP103, ENP112
Corequisites:	ENP111
Vocational Learning Outcomes (VLO's) addressed in this course:	3044 - ENHANCED PRACTICE
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 1 Conduct comprehensive assessments to plan individualized care supporting health promotion and disease prevention in complex and non-routine patient environments.
Essential Employability Skills (EES) addressed in this course:	EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience. EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication. EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 11 Take responsibility for ones own actions, decisions, and consequences.
Course Evaluation:	Passing Grade: 50%, A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.
Books and Required Resources:	: Medical-Surgical Nursing in Canada: Assessment and Management of Clinical Problems by Lewis Publisher: Elsevier Edition: 4th



Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
<p>1. Learners will assess and review of general knowledge of common pathophysiological conditions and will receive introduction to the important theoretical body systems and clinical components covered in a Critical Care Nursing Program.</p>	<p>1.1 Explain how cells adapt to sublethal and lethal injuries, including the functions of phagocytes. Differentiate the types of cell necrosis.</p> <p>1.2 Explain the inflammatory response, including cellular and vascular responses, and the formation of exudate.</p> <p>1.3 Explain local and systemic inflammation, as well as nursing management of both.</p> <p>1.4 Differentiate the stages of healing (primary, secondary and tertiary) and identify factors that delay the healing process.</p> <p>1.5 Outline the process by which pressure ulcers develop, the prevention methods nurses use to avoid pressure ulcers, and the nursing management for a patient with pressure ulcers.</p> <p>1.6 Outline the functions and parts of the immune system.</p> <p>1.7 Differentiate between humoral and cell mediated immunity.</p> <p>1.8 Outline the five different types of immunoglobulins and the four types of hypersensitivity reactions.</p> <p>1.9 Explain the nursing management interventions that are appropriate for patients experiencing anaphylaxis, autoimmune diseases and immunodeficiency disorders.</p> <p>1.10 Explain infection prevention and control strategies and the impact of infections on the health care system.</p> <p>1.11 Explain the biological process of cancer, the different phases of cancer and how the immune system functions in the setting of cancer. Outline how nurses manage patients with cancer.</p> <p>1.12 Outline the major body fluid compartments, and the processes whereby fluids and electrolytes are regulated (osmosis, diffusion, filtration, etc.)</p> <p>1.13 Explain electrolyte imbalances and the nursing management interventions that go along with them.</p> <p>1.14 Explain acid-base balance and imbalance, as well as the nursing management interventions for these conditions.</p> <p>1.15 Develop an understanding of the Critical Care environment, the needs of the critically ill patient, hemodynamic monitoring, and nursing care of the critically ill patient.</p> <p>1.16 Explain shock and the two major classifications of shock, the pathophysiology and clinical manifestations of shock.</p> <p>1.17 Outline nursing management interventions for patients in different kinds of shock.</p> <p>1.18 Outline MODS and SIRS. Differentiate between shock, MODS (multiple organ dysfunction syndrome) and SIRS (systemic inflammatory response syndrome) and explain nursing management for patients in MODS and SIRS.</p> <p>1.19 Explain the pathophysiology of respiratory failure and differentiate between early and late failure, as well as nursing management interventions of respiratory failure.</p> <p>1.20 Outline of pathophysiology of ARDS (acute respiratory distress syndrome), and the nursing management patients with ARDS require.</p> <p>1.21 Develop an understanding of primary and secondary</p>



patient surveys during emergency situations. Outline the nursing management required for patients experiencing extreme heat and cold, trauma and code management.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Case Study One	15%
Case Study Two	15%
Final Exam	30%
Test One	20%
Test Two	20%

Date:

December 22, 2022

Addendum:

Please refer to the course outline addendum on the Learning Management System for further information.

