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:	PRACTICAL NURSING
Academic Year:	2024-2025
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: **Please refer to program web page for a complete listing of program outcomes where applicable.**	**3044 - ENHANCED PRACTICE** 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:	Introduction to Critical Care Nursing by Sole, Mary Lou Publisher: Elsevier Edition: 9th ISBN: 9780443110368

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
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.	1.1 Explain how cells adapt to sublethal and lethal injuries, including the functions of phagocytes. Differentiate the types of cell necrosis. 1.2 Explain the inflammatory response, including cellular and vascular responses, and the formation of exudate. 1.3 Explain local and systemic inflammation, as well as nursing management of both. 1.4 Differentiate the stages of healing (primary, secondary and tertiary) and identify factors that delay the healing process. 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. 1.6 Outline the functions and parts of the immune system. 1.7 Differentiate between humoral and cell mediated immunity. 1.8 Outline the five different types of immunoglobulins and the four types of hypersensitivity reactions. 1.9 Explain the nursing management interventions that are appropriate for patients experiencing anaphylaxis, autoimmune diseases and immunodeficiency disorders. 1.10 Explain infection prevention and control strategies and the impact of infections on the health care system. 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. 1.12 Outline the major body fluid compartments, and the processes whereby fluids and electrolytes are regulated (osmosis, diffusion, filtration, etc.) 1.13 Explain electrolyte imbalances and the nursing management interventions that go along with them. 1.14 Explain acid-base balance and imbalance, as well as the nursing management interventions for these conditions. 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. 1.16 Explain shock and the two major classifications of shock, the pathophysiology and clinical manifestations of shock. 1.17 Outline nursing management interventions for patients in different kinds of shock. 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. 1.19 Explain the pathophysiology of respiratory failure and differentiate between early and late failure, as well as nursing management interventions of respiratory failure. 1.20 Outline of pathophysiology of ARDS (acute respiratory distress syndrome), and the nursing management patients with ARDS require. 1.21 Develop an understanding of primary and secondary

	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 9, 2024

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