



COURSE OUTLINE: PNG233 - PATHOPHYSIOLOGY I

Prepared: Ann Boyonoski

Approved: Bob Chapman, Chair, Health

Course Code: Title	PNG233: PATHOPHYSIOLOGY I
Program Number: Name	3024: PRACTICAL NURSING
Department:	PRACTICAL NURSING
Semesters/Terms:	18F
Course Description:	This course provides the learner with a general understanding and working knowledge of the structure and function of various body systems experiencing both acute and chronic health challenges. The learner will examine changes that occur in the human body and explore how the body compensates for those challenges. Included in this course is the study of the basic principles of microbiology.
Total Credits:	4
Hours/Week:	4
Total Hours:	60
Prerequisites:	PNG111, PNG121, PNG127, PNG130, PNG131
Corequisites:	PNG234, PNG236, PNG238
Substitutes:	OEL679
This course is a pre-requisite for:	PNG250, PNG251, PNG252, PNG253
Vocational Learning Outcomes (VLO's) addressed in this course:	<p>3024 - PRACTICAL NURSING</p> <p>VLO 1 Communicate therapeutically with clients and members of the health care team.</p> <p>VLO 2 Assess clients across the life span, in a systematic and holistic manner.</p> <p>VLO 3 Plan safe and competent nursing care, based upon a thorough analysis of available data and evidence-informed practice guidelines.</p>
<small>Please refer to program web page for a complete listing of program outcomes where applicable.</small>	
Essential Employability Skills (EES) addressed in this course:	<p>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.</p> <p>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>EES 4 Apply a systematic approach to solve problems.</p> <p>EES 5 Use a variety of thinking skills to anticipate and solve problems.</p> <p>EES 6 Locate, select, organize, and document information using appropriate technology and information systems.</p> <p>EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.</p> <p>EES 10 Manage the use of time and other resources to complete projects.</p> <p>EES 11 Take responsibility for ones own actions, decisions, and consequences.</p>
General Education Themes:	Science and Technology



SAULT COLLEGE | 443 NORTHERN AVENUE | SAULT STE. MARIE, ON P6B 4J3, CANADA | 705-759-2554

Course Evaluation:	Passing Grade: 60%, C
Other Course Evaluation & Assessment Requirements:	Students enrolled in OEL679 (Pathophysiology I) must then continue on into OEL680 (Pathophysiology II). Students that have taken PNG 233 (Pathophysiology I) can take either PNG 251 or OEL680 (Pathophysiology II). Students that fail PNG 251 can take OEL680. All online courses MUST be completed by the end of semester 4 (mid-March) in order to begin consolidation on time.
Books and Required Resources:	Pathophysiology: Introductory Concepts and Clinical Perspectives by Capriotti, T., Frizzell, JP Publisher: FA Davis Company ISBN: 9780803615717

Course Outcomes and Learning Objectives:	Course Outcome 1	Learning Objectives for Course Outcome 1
	1. Introduction to Pathophysiology.	1.1 Explain the role of pathophysiology in the diagnosis and treatment of disease. 1.2 Review normal defences of the body. 1.3 Identify and describe specific and non-specific defences. 1.4 Discuss the stress response and its relationship to disease. 1.5 Identify and describe the various types of cellular injury, adaptation and death. 1.6 Identify and describe the most common causes of cell injury, adaptation and death.
	Course Outcome 2	Learning Objectives for Course Outcome 2
	2. Inflammation & Healing.	2.1 Explain the inflammatory process. 2.2 Describe the signs and symptoms of inflammation (local and systemic effects). 2.3 Describe the characteristics of exudates. 2.4 Discuss diagnostic tests used to diagnose and monitor inflammation. 2.5 Explain the healing process. 2.6 Identify and describe factors that affect healing.
	Course Outcome 3	Learning Objectives for Course Outcome 3
3. Pain.	3.1 Identify and describe the causes, signs and symptoms of pain. 3.2 Describe the pain pathway. 3.3 Discuss factors that may alter perception of pain. 3.4 Compare acute and chronic pain.	
Course Outcome 4	Learning Objectives for Course Outcome 4	
4. Fluid and electrolyte balance, Acid /base imbalance.	4.1 Identify and describe functions and regulatory mechanisms that maintain fluid and electrolyte balance. 4.2 Identify and describe the common causes signs and symptoms and complications of fluid volume excess and deficit. 4.3 Identify and describe the common causes, signs and symptoms and complications of the more common electrolyte imbalances. 4.4 Identify and describe the common causes, signs and symptoms and complications of acidosis and alkalosis (metabolic and respiratory). 4.5 Discuss diagnostic tests used to diagnose and monitor	

	fluid, electrolyte and acid/base imbalances.
Course Outcome 5	Learning Objectives for Course Outcome 5
5. Immunological Diseases.	5.1 Identify the etiology, contributing factors, signs and symptoms, complications of immune disorders. 5.2 Examine diagnostic tests used to diagnose and monitor immune disorders.
Course Outcome 6	Learning Objectives for Course Outcome 6
6. Infection.	6.1 Describe the typical characteristics of a bacteria, virus, fungus, parasite. 6.2 Examine the transmission of infectious agents. 6.3 Describe the chain of infection. 6.4 Discuss interventions to prevent spread of infection (Guidelines for standard and transmission based precautions). 6.5 Describe the progression of infection. 6.6 Identify and describe common nosocomial infections. 6.7 Discuss diagnostic tests used to diagnose and monitor infection.
Course Outcome 7	Learning Objectives for Course Outcome 7
7. Hematological Diseases.	7.1 Identify the etiology, contributing factors, signs & symptoms of various blood disorders (anemias, clotting). 7.2 Examine diagnostic tests used to diagnose and monitor blood disorders.
Course Outcome 8	Learning Objectives for Course Outcome 8
8. Cardiovascular.	8.1 Identify and describe the etiology, contributing factors, pathophysiology, signs and symptoms of various cardiovascular and peripheral vascular disorders. 8.2 Identify and describe the common causes, signs and symptoms and complications of the various stages of shock. 8.3 Examine the diagnostic tests used to diagnose and monitor cardiovascular & peripheral vascular disorders.
Course Outcome 9	Learning Objectives for Course Outcome 9
9. Respiratory.	9.1 Identify and describe the etiology, contributing factors, pathophysiology, signs and symptoms of various acute respiratory disorders (upper and lower). 9.2 Explain the progressive airway response to a stimulus. 9.3 Identify the etiology, contributing factors, signs and symptoms and complications of chronic respiratory disorders. 9.4 Compare and contrast emphysema, asthma and bronchitis. 9.5 Discuss diagnostic tests used to diagnose and monitor respiratory disorders.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight	Course Outcome Assessed
Final Exam	30%	1-9
Online Quizzes	20%	
Term Test 1	25%	
Term Test 2	25%	



Date:

July 9, 2018

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

