

Prepared: Allan Kary Approved: Bob Chapman

Course Code: Title	PNG111: ANATOMY AND PHYSIOLOGY I
Program Number: Name	3024: PRACTICAL NURSING
Department:	PRACTICAL NURSING
Semester/Term:	17F
Course Description:	This course introduces the learner to the normal development, structures and functions of the human body. The learner will examine the physiological components of the human body, in order to obtain knowledge and understanding about how the structures and functions of the body are related.
Total Credits:	3
Hours/Week:	3
Total Hours:	45
Substitutes:	OEL1038
This course is a pre-requisite for:	FIT150, FIT155, FIT156, PNG233, PNG234, PNG238
Vocational Learning Outcomes (VLO's): Please refer to program web page for a complete listing of program outcomes where applicable.	 #1. Communicate therapeutically with clients and members of the health care team. #2. Assess clients across the life span, in a systematic and holistic manner. #5. Evaluate the outcomes resulting from all interventions in the nurse-client interaction and modify the plan of care as required. #7. Adapt to a variety of health care settings, using different leadership skills and styles as appropriate to each setting. #8. Contribute to creating a healthy and safe work environment in a variety of health care settings.
Essential Employability Skills (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. #2. Respond to written, spoken, or visual messages in a manner that ensures effective communication. #4. Apply a systematic approach to solve problems. #5. Use a variety of thinking skills to anticipate and solve problems. #6. Locate, select, organize, and document information using appropriate technology and information systems.



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#7. Analyze, evaluate, and apply relevant information from a variety of sources. #10. Manage the use of time and other resources to complete projects. #11. Take responsibility for ones own actions, decisions, and consequences.

Course Evaluation:

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Passing Grade: 60%, C

Evaluation Process and Grading System:	Evaluation Type	Evaluation Weight
cruang bystom.	Chapter Review and Questions	10%
	Test	25%
	Tests	65%
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Books and Required Resources:

Course Outcomes and

Learning Objectives:

Anatomy and Physiology by Marieb, E. N. Hoehn K. Publisher: Benjamin Cummings Edition: 5th ISBN: 13:978-0-8036-1824-4

Course Outcome 1.

Use the appropriate terminology related to the organization, structure and function of the human body.

Learning Objectives 1.

Define anatomy and physiology Name the following : levels of organization of the human body major organs for each body system directional terms that describe the location of body parts major body regions planes used in making sections of the body or body parts 2 major body cavities, their subdivisions and membranes major organs located in each body cavity 4 guadrants and 9 regions of the abdominopelvic region Review the selected key terms (vocabulary) for each specific area of study/system studied Course Outcome 2.



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Examine the chemical composition and chemical interactions (life processes) of the human body.

Learning Objectives 2.

Describe the basic structure of an atom Explain the meaning of a chemical formula Distinguish between organic and inorganic compounds Compare the 3 types of chemical bonds Identify the difference between acids, bases and salts Examine the concept of pH and its relationship to acids, bases and salts in the body List the 4 major groups of organic substances in the body and give examples and functions of specific types in each group Explain the role of enzymes Describe the composition and role of ATP. Explain the relationship between elements, compounds, atoms and molecules Explain the properties that make water such an important inorganic molecule in living organisms Explain why knowledge of basic chemistry is important in the study of life processes.

Course Outcome 3.

Describe the relationship between the structure and function of the human body.

Learning Objectives 3.

Define homeostasis and explain its relationship to normal body functions List the five basic needs essential to human life

Course Outcome 4.

Describe the location, development, structure and function of cells, tissues and organs of stated body systems

Learning Objectives 4.



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	THE CELL Describe the structure of a typical cell List the function of each part of a typical cell list the function of each part of a typical cell lidentify the 2 processes that allow substances to enter and leave cells Explain the role of DNA and RNA List the 2 processes of cell division Differentiate the phases of mitosis and meiosis TISSUES AND MEMBRANES Describe the distinguishing characteristics of each type of tissue and membrane Identify the common location and function of each type of tissue and membrane Identify the common location and function of each type of tissue and membrane INTEGUMENTARY SYSTEM Describe the basic structure of the skin and its layers Describe the basic structure of the skin and its layers Describe the basic functions of the skin and its layers Describe the basic functions of the skeletal system Identify the composition of bone structure Explain the basic process of bone formation Name the 2 divisions of the skeletal system Identify the bones of the axial and appendicular skeleton Compare cervical, thoracic, lumbar, and sacral vertebrae Compare immovable, slightly movable and freely movable joints MUSCLE SYSTEM Compare the structure and function of the 3 types of muscle tissue Explain the basic concept of muscle contraction Explain the basic oncept of muscle contraction Explain the ationship between muscle origin, insertion and action Identify the major muscles of the body NERVOUS SYSTEM Name the anatomical divisions of the nervous system, their components and functions Name the functional divisions of the nervous system, their components and functions Name the functional divisions of the nervous system, their components and functions Name the functional divisions of the nervous system, their components and functions Name the functional divisions of the nervous system, their components and functions Name the functional divisions of the nervous system, their components and functions Name the function and conduction of a nerve inpulse Describe how impulses are transmitted across a s
Date:	Wednesday, August 30, 2017
	Please refer to the course outline addendum on the Learning Management System for further
	information.



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