



COURSE OUTLINE

PNG121

Prepared: Allan Kary Approved:

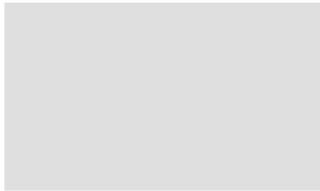
Course Code: Title	PNG121: ANATOMY AND PHYSIOLOGY II
Program Number: Name	3024: PRACTICAL NURSING
Department:	PRACTICAL NURSING
Semester/Term:	18W
Course Description:	This course is a continuation of Anatomy and Physiology I and will further examine the relationship of body structures and their functions. Understanding of the remaining body systems will provide you with knowledge and understanding about how these systems work together to carry on complex functions within the human body.
Total Credits:	3
Hours/Week:	3
Total Hours:	45
Corequisites:	PNG127, PNG131
Substitutes:	OEL647
This course is a pre-requisite for:	FIT200, FIT203, FIT206, FIT207, PNG231, PNG233, PNG234, PNG238
Vocational Learning Outcomes (VLO's): Please refer to program web page for a complete listing of program outcomes where applicable.	<p>#1. Communicate therapeutically with clients and members of the health care team.</p> <p>#2. Assess clients across the life span, in a systematic and holistic manner.</p> <p>#3. Plan safe and competent nursing care, based upon a thorough analysis of available data and evidence-informed practice guidelines.</p> <p>#5. Evaluate the outcomes resulting from all interventions in the nurse-client interaction and modify the plan of care as required.</p> <p>#7. Adapt to a variety of health care settings, using different leadership skills and styles as appropriate to each setting.</p>
Essential Employability Skills (EES):	<p>#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>#2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>#4. Apply a systematic approach to solve problems.</p> <p>#5. Use a variety of thinking skills to anticipate and solve problems.</p>



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- #6. Locate, select, organize, and document information using appropriate technology and information systems.
- #7. Analyze, evaluate, and apply relevant information from a variety of sources.
- #9. Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.
- #10. Manage the use of time and other resources to complete projects.
- #11. Take responsibility for ones own actions, decisions, and consequences.

Course Evaluation:

Passing Grade: 60%, C

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
3 Semester Test	25%
3 Semester Tests	65%
Chapter review and questions	10%

Books and Required Resources:

Essentials of Human Anatomy and Physiology by Elaine N. Marieb, Suzanne M. Keller
Publisher: Pearson Edition: 12th

Course Outcomes and Learning Objectives:

Course Outcome 1.

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

Learning Objectives 1.

Review the selected key terms (vocabulary)for each specific area of study/systems

Course Outcome 2.

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

Learning Objectives 2.

Endocrine System



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Distinguish between endocrine and exocrine glands and their functions
Distinguish between hormones and prostaglandins and their functions
Describe the basic control and actions of the hypothalamus, pituitary, thyroid and parathyroid, adrenal, pancreatic and male and female gonadal hormones
Cardiovascular system
Describe the general characteristics of blood
Identify the functions of the components of blood eg. red blood cells, white blood cells, platelets, plasma
Explain the basis of blood typing and why it is important
Describe the sequence of events in hemostasis
Identify the structures of the heart and blood vessels and their functions
Describe the basic mechanism of circulation within the body
Identify the major veins and arteries and the organs/body regions they supply
Trace the flow of blood through the heart
Describe the events of the cardiac cycle
Identify parts of the heart conduction system and their functions
Define pulse and blood pressure
Explain how heart rate and blood pressure are regulated
Lymphatic System/Immune System
Explain the source of lymph
Identify the lymphatic capillaries and vessels
Describe the lymphatic pathway
Identify the location and function of lymph nodes, spleen and thymus gland
Compare non-specific resistance and specific resistance against disease
Explain the mechanism of cell-mediated immunity
Explain the mechanism of antibody-mediated immunity
Compare primary and secondary immune responses
Respiratory System
List the parts of the respiratory system and identify their functions
Describe the mechanism of breathing
Explain how breathing is controlled
Describe the basic respiratory volumes and the significance of each
Identify the factors that influence breathing and their effect
Describe the mechanism of gas exchange in the lungs and body tissues
Explain how oxygen and carbon dioxide are transported by the blood
Digestive System and Metabolism
Compare mechanical and chemical digestion
Describe the role of digestive enzymes
Identify the structures of the digestive system and their function
Explain how the end products of digestion are absorbed



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Identify the sources and uses of carbohydrates, lipids, proteins, vitamins and major minerals and electrolytes
Explain cellular respiration and its importance
Urinary System
Name and describe the structure and function of each of the organs of the urinary system
Name and describe the specific structures of the kidney and their basic functions
Describe the structure and function of blood supply of the kidney
Explain how urine is formed
Name the normal components of urine
Explain how the kidneys maintain blood plasma composition
Reproductive System
Identify and describe the structure and function of the organs of the male reproductive system
Describe spermatogenesis
Identify and describe the structure and function of the organs of the female reproductive system
Describe oogenesis
Explain the hormonal control of reproduction in males and females
Describe the structure and function of mammary glands
Genetics/Inheritance
Explain the roles of DNA, genes and chromosomes
Describe the basic patterns of inheritance

Date:

Wednesday, August 30, 2017

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