## BODY STRUCTURE AND FUNCTION THE RESPIRATORY SYSTEM Learning Unit XIII

## At the end of this Learning Unit, the student will be able to:

- Identify the organs forming the respiratory passage-way in descending order until the alveoli are reached
- 2. Describe several protective mechanisms of the respiratory system
- 3. Describe the makeup of the respiratory membrane and relate its structure to its function
- 4. Describe the structure and function of the lungs and the pleural coverings
- Explain the relative roles of the respiratory muscles and lung elasticity in effecting volume changes that cause air to flow into and out of the lungs
- 6. Explain the functional importance of the partial vacuum that exists in the intrapleural space
- 7. Describe several physical factors that influence pulmonary ventilation
- 8. Explain and compare the various lung volumes and capacities. Indicate types of information that can be gained from pulmonary function tests
- 9. Describe how oxygen and carbon dioxide are transported in the blood
- 10. Describe the neural controls of respiration
- 11. Name several physical factors that influence respiratory rate
- 12. Describe the symptoms and probable causes of Chronic Obstructive Pulmonary Disease and lung cancer
- 13. Describe normal changes that occur in respiratory system functioning from infancy to old age

## Reference:

Thibodeau, G., and Patton, K. (2008). Structure & Function of the Body, (13<sup>th</sup> ed.). St Louis: Mosby. (The Respiratory System)

CIMC (2009). Body Structure and Function