

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: RTH 135

Credits: 2

Course Title: Diagnostic and Therapeutic Procedures I

Course Description: Focuses on the purpose, implementation, and evaluation of equipment and procedures used in the diagnosis and therapeutic management of patients with cardiopulmonary disease. Explores baseline personal health as it relates to the development and recognition of respiratory diseases or disorders. Prerequisites: Completion of the Health Science Career Studies Certificate Respiratory Therapy pathway and acceptance into pre-clinical courses. Lecture 1 hour per week. Laboratory 3 hours per week. Total 4 hours per week.

General Course Purpose: The respiratory care practitioner is a primary care provider for patients with cardiopulmonary disease and complications. The practitioner must have an expert understanding of the purpose, implementation, evaluation, and modification of all equipment and procedures used in the management, diagnosis, and assessment of patients receiving respiratory care. This course teaches the basic assessment concepts required of respiratory care practitioners.

Course Prerequisites and Co-requisites:

Prerequisites: Completion of the Health Science Career Studies Certificate Respiratory Therapy pathway and acceptance into pre-clinical courses

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Develop or refine personal wellness goals by applying principles, definitions, and concepts of respiratory care related to disease prevention, wellness, and health promotion based on ethical, social, cultural, racial, and spiritual factors;
- b. Apply assessment skills to recognize the possibility of injury or sickness;
- c. Analyze the cognitive processes used by the respiratory care practitioner in the initiation, monitoring, evaluation, modification, and discontinuance of therapies; and
- d. Apply the processes of evaluation and analysis used in the application of respiratory care modalities to a variety of simulated clinical conditions.

Major Topics to Be Included:

- a. Medical records
- b. Patient interview and history
- c. Vital signs: pulse and respiration
- d. Blood pressure measurement
- e. Physical assessment of the chest
- f. Auscultation
- g. Patient positioning
- h. Pulmonary functions, butler
- i. Bedside pulmonary mechanics
- j. Chest x-ray interpretation
- k. Principles, definitions, and concepts of respiratory care related to disease prevention, wellness, and health promotion

Date Created/Updated (Month, Day, and Year): December 5, 2019