J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: RTH 290 **Credits:** 2

Course Title: Coordinated Practice in Respiratory Therapy: ACC/NPCC I

Course Description: Provides supervised on-the-job training. Introduces the student to respiratory critical care, home care, and diagnostic pulmonary functions. Students rotate through several critical care units (adult, pediatric, and neonatal) and practice and are evaluated on entry-level critical care skills. Introduces students to adult and pediatric home care and helps them learn to perform diagnostic pulmonary functions. Prerequisites: Successful completion of all curriculum courses offered during the first three semesters of the AAS degree in Respiratory Therapy. Laboratory 10 hours per week.

General Course Purpose: The purpose of this clinical course is to familiarize and evaluate students on critical care skills, home care skills, and pulmonary functions.

Course Prerequisites and Co-requisites:
Prerequisites: Successful completion of all curriculum courses offered during the first three semesters of the AAS degree in Respiratory Therapy

Student Learning Outcomes:
Upon completing the course, the student will
a. Become oriented to the critical care environment and the role the continuous mechanical ventilator plays in this environment;
b. Develop the necessary skills to initially set up a ventilator, perform ventilator checks, and change the ventilator circuit in accordance with hospital policy and procedures;
c. Become familiar with the various mechanical ventilators used at the clinical sites they rotate through;
d. Demonstrate proficiency using Mask CPAP/BiPAP systems;
e. Demonstrate proficiency in performing endotracheal extubations;
f. Demonstrate proficiency in obtaining blood from a-lines;
g. Demonstrate proficiency in performing tracheostomy care;
h. Become oriented to the neonatal-pediatric critical care units with the clinical competency being performed in the spring semester;
i. Become proficient at performing lung volumes and diffusion studies on pulmonary function patients;
j. Understand the basic differences between obstructive and restrictive lung disease processes utilizing pulmonary function test results; and
k. Gain a basic understanding of adult and pediatric home care.

Major Topics to Be Included:
a. Ventilator initiation
b. Extubation
c. Ventilator circuit change
d. Tracheostomy care
e. Patient-Ventilator system care
f. Arterial line samples
g. Mask CPAP/BiPAP initiation
h. Spirometry
i. Neonatal patient ventilator system care

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