

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

**Course Prefix and Number:** RTH 190

**Credits:** 2

**Course Title:** Coordinated Practice in Respiratory Therapy-NCC III

**Course Description:** Provides supervised on-the-job training to enable students to work directly with patients to practice and refine skills learned in the previous semester's classroom and laboratory classes. Prerequisites: Successful completion of all curriculum courses offered during the first two semesters of the AAS degree in Respiratory Therapy. Laboratory 10 hours per week.

**General Course Purpose:** To give students the practical experience working in non-critical care settings to practice and refine the skills that they have learned in the classroom and have been evaluated on in the laboratory.

**Course Prerequisites and Co-requisites:**

Prerequisite: Successful completion of all curriculum courses offered during the first two semesters of the AAS degree in Respiratory Therapy

**Student Learning Outcomes:**

Upon completing the course, the student will be able to

- a. Discuss the role of the Respiratory Therapy department and its role in the hospital environment;
- b. Select, review, and interpret the data applicable to perform the above procedures;
- c. Demonstrate the various physiological monitoring procedures performed on patients;
- d. Critique a patient's medical records and identify pertinent information in the medical record;
- e. Demonstrate appropriate hand washing and isolation techniques to reduce the incidence of nosocomial infections;
- f. Demonstrate tracheo-bronchial suctioning, cuff management procedures, and bedside ventilatory assessment procedures;
- g. Apply the use of gas cylinders, safety systems and techniques involved with transporting cylinders;
- h. Evaluate patient status and select the appropriate oxygen therapy modality for patients;
- i. Demonstrate oxygen therapy competency to include oxyhoods, oxygen analyzers, aerosol/humidity therapy devices and aerosol enclosures;
- j. Compare and contrast the differences between humidity and aerosol therapy;
- k. Demonstrate the following clinical respiratory therapy competencies
  - Administration of aerosol drugs;
  - Administration of incentive spirometry therapy;
  - Administration of IPPB therapy;
  - Administration of CPT and PD;
  - Administration of Positive Expiratory Pressure Therapy;
- l. Apply patient education techniques for directed cough techniques and inspiratory muscle training;
- m. Demonstrate arterial punctures and blood gas analysis;
- n. Analyze patient physiologic monitoring to include blood pressures, pulses, respiratory rates, temperature monitoring, and pulse oximetry;

- o. Implement independently complete clinical patient assessments to include history, inspection, percussion, palpation and auscultation; and
- p. Demonstrate basic X-Ray interpretation.

**Major Topics to Be Included:**

- a. Standard Precautions/Transmission-Based Isolation Techniques
- b. Sterilization/Disinfection
- c. Medical Records
- d. Patient Interview and History
- e. Vital Signs: Pulse and Respiration
- f. Blood Pressure Measurement
- g. Physical Assessment of the Chest
- h. Auscultation
- i. Directed Cough Techniques
- j. Bedside Pulmonary Mechanics
- k. Gas Pressure and Flow Regulation
- l. Oxygen Analysis
- m. Oxygen Therapy
- n. Oxygen Hood
- o. Humidity Therapy
- p. Aerosol Generators
- q. Aerosol Medication Delivery
- r. Pulse Oximetry
- s. Intermittent Positive-Pressure Breathing Therapy
- t. Incentive Spirometry
- u. Chest Physiotherapy
- v. Positive Expiratory Pressure Mask Therapy
- w. Inspiratory Resistive Muscle Training
- x. Endotracheal Suctioning
- y. Nasotracheal Suctioning
- z. Chest X-Ray Interpretation
- aa. Arterial Puncture
- bb. Arterial Blood Gas Calibration, Maintenance, and Quality Assurance

**Date Created/Updated** (Month, Day, and Year): November 1, 2017