

BUTTE COLLEGE

COURSE OUTLINE

I. CATALOG DESCRIPTION

RT 125 - Introduction to Clinical Respiratory Care

5 Unit(s)

Prerequisite(s): RT 115

Co-requisite(s): RT 120, RT 128, BCIS 33

Recommended Prep: NONE

Transfer Status: NT

272 hours Lab

This course is an introduction to the basic concepts of clinical respiratory care as practiced in the acute care hospital. Students will become conversant with bedside examination, monitoring, and care of medical/surgical and respiratory disease patients. Graded only.

II. OBJECTIVES

Upon successful completion of this course, the student will be able to:

- A. Demonstrate knowledge of appropriateness of therapy in relation to diagnosis and patient condition, the ability to explain the rationale for specific therapeutic modalities, and how to appropriately educate the patient on each of the above.
- B. Describe the hazards/complications associated with arterial blood gas sampling procedures through program testing and competency assessment.
- C. Demonstrate selected clinical competencies appropriate to each students experience level, and available clinical patient care.
- D. Employ clinical decision making in the care of acute and chronic medical/surgical, and patients with respiratory disorders.
- E. Employ basic patient interaction, education, assessment and treatment skills used in bedside respiratory patient care.
- F. Distinguish basic principles of health care ethics, as they apply to the respiratory care practitioner (RCP).
- G. Demonstrate competency in hand washing, isolation and infection control procedures, vital signs assessment, chest assessment, small volume nebulizer (SVN) therapy, incentive spirometry (IS), pulse oximetry, intermittent positive pressure breathing (IPPB) or EzPAP, mucus clearing adjuncts, and metered dose inhaler (MDI) or dry powder inhaler (DPI).
- H. Gather and interpret clinical data from a patient care chart through the correct completion of a written Patient Care Worksheet (PCW).

III. COURSE CONTENT

A. Unit Titles/Suggested Time Schedule

Due to the day-to-day uncertainty of availability of specific categories of patients and treatment modalities, student will be exposed to the following units in variable order as they become available in a given clinical facility.

Lab

<u>Topics</u>	<u>Hours</u>
1. Hospital Orientation I	16.00
2. Hand Washing	8.00
3. Small Volume Nebulizer Therapy	32.00
4. Vital Signs	36.00

5.	Isolation and Infection Control Procedures	36.00
6.	Chest Assessment	54.00
7.	Hospital Orientation II	8.00
8.	IPPB or EzPAP	16.00
9.	Mucus Clearing Adjuncts	16.00
10.	Incentive Spirometry	16.00
11.	Pulse Oximetry	16.00
12.	MDI or DPI	18.00
	Total Hours	272.00

IV. **METHODS OF INSTRUCTION**

- A. Lecture
- B. Instructor Demonstrations
- C. Collaborative Group Work
- D. Demonstrations
- E. Problem-Solving Sessions
- F. Reading Assignments
- G. Bedside administration of procedures to patients with Faculty observation and assistance.
- H. Individual and group discussion
- I. Written Assignments

V. **METHODS OF EVALUATION**

- A. Quizzes
- B. Research Projects
- C. Oral Presentation
- D. Demonstration
- E. Practical Evaluations
- F. Hospital staff input regarding student performance

VI. **EXAMPLES OF ASSIGNMENTS**

- A. Reading Assignments
 - 1. Read the provided material on the competencies assigned by your clinical instructor PRIOR to your next scheduled clinical rotation in preparation for competency check offs.
 - 2. Review the patient's chart for current doctor's order, diagnosis, lab values and chest x-ray results prior to delivering assigned therapy to be prepared for any contingencies with the patient.
- B. Writing Assignments
 - 1. Utilizing your assigned patient's medical chart, complete a Patient Care Worksheet form.
 - 2. Write a disease research paper on the topic provided for you, using guidelines posted in Blackboard for this assignment.
- C. Out-of-Class Assignments
 - 1. Not Applicable.

VII. **RECOMMENDED MATERIALS OF INSTRUCTION**

Textbooks:

- A. Cairo, J.M., Pilbeam, S.. Mosby's Respiratory Care Equipment. 9th Edition. Mosby, 2013.
- B. Wilkins, R.. Egan's Fundamentals of Respiratory Care. 10th Edition. Mosby, 2012.
- C. Wilkins. Clinical Assessment in Respiratory Care. 7th Edition. Mosby, 2013.

D. Corning, H., et al. . Mosby's Respiratory Care PDQ. 2nd Edition. Mosby, 2010.

Materials Other Than Textbooks:

- A. American Association for Respiratory Care, Clinical Practice Guidelines, at www.aarc.org.
- B. Selected references from medical periodicals
- C. Selected computer assisted instruction programs

D. Required Equipment:

- 1. Name Badge
- 2. Stethoscope
- 3. Watch with seconds display
- 4. Approved scrub outfit
- 5. Working pen and pencil
- 6. Approved eye protection
- 7. Bandage scissors
- 8. Small spiral-bound pocket notebook

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