

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Respiratory Care Technology</u>
COURSE RUBRIC AND NUMBER	<u>RSPT 1410</u>
COURSE TITLE	<u>Respiratory Care Procedures I</u>
COURSE CREDIT HOURS	<u>4 2 :</u> Credits Lec Lab

I. Catalog Description

Provides essential knowledge of the equipment and techniques used in the treatment of cardiopulmonary disease. A grade of "C" or better is required in this course to take the next course. **(2:6). Lab fee.**

II. Course Objectives

A. Unit I. Oxygen Therapy

1. Explain the rationale and use of oxygen for patients and assess the need for O₂ therapy.
2. Describe what precautions and complications are associated with O₂ therapy.
3. Select an O₂ delivery system appropriate for a given patient and his/her needs.
4. Describe how to administer O₂ to adults, children, and infants.
5. Assess and monitor a patient's response to O₂ therapy.

B. Unit II. Humidity Therapy

1. Describe how airway heat and moisture exchange normally occurs.
2. State the effect dry gases have on the respiratory tract.
3. State when to humidify and warm inspired gas and when to apply bland aerosol therapy.
4. Describe how various types of humidifiers work.
5. Describe how to monitor patients receiving humidity therapy.
6. State how to select the appropriate therapy to condition a patient's inspired gas.

C. Unit III. Aerosol Therapy

1. Define the term aerosol.
2. Describe how particle size, motion, and airway characteristics affect aerosol deposition.
3. List the hazards associated with aerosol drug therapy.
4. Describe how to select the best aerosol drug delivery system for a given patient.
5. State the information patients need to know to self-administer drug aerosol therapy properly.
6. Describe how to assess a patient's response to bronchodilator therapy at the point of care.

D. Unit IV. Lung Expansion Therapy

1. Describe the various causes of atelectasis and define clinical findings seen in atelectasis.
2. Identify which patients need lung expansion therapy.
3. Describe how lung expansion therapy works.
4. List indications, hazards, and complications associated with the various modes of lung expansion therapy.

E. Unit V. Bronchial Hygiene Therapy

1. Describe the normal airway clearance mechanisms and the factors that impair their function.
2. Identify pulmonary diseases associated with abnormal secretion clearance.
3. State the goals and clinical indications for airway clearance therapy.
4. Describe the proper technique and potential benefit of each of the following:
 - a. Chest physical therapy.
 - b. Directed cough and related expulsion techniques.
 - c. Vibratory positive expiratory pressure therapy.
 - d. High-frequency positive airway pressure and compression/oscillation devices.
 - e. Mobilization and exercise.
5. Evaluate a patient’s response to airway clearance therapy.

III. THECB Learning Outcomes (WECM)

1. Utilize respiratory care equipment; perform therapeutic procedures including oxygen therapy, humidity and aerosol therapy, lung expansion therapy, bronchial hygiene and pulse oximetry.

IV. Evaluation

At the end of one or more units, students will be tested on the material related to those units. The minimum passing score is 78%. A final examination will be administered. In addition, quizzes, homework, and lab work will be assigned throughout the semester. Special assignments may be included at the discretion of the instructor. Late exams and assignments will be penalized 5 points for every day beyond the due date.

Final Grade Distribution Percent of Grade

4 Unit Tests	70%
1 Final	20%
<u>Homework, Quizzes</u>	<u>10%</u>
	100%

93 to 100%	A
86 to 92%	B
78 to 85%	C
70 to 77%	D
69 or below	I or F

As the course moves forward vigorously, make-up quizzes, labs, and exams are allowed in only the most extreme of circumstances. Please be in class and on time for lecture, lab, quizzes, and exams.

V. Disability Statement (Americans with Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.