Course Acronym:	RC
Course Number:	296
Descriptive Title:	Physical Examination in Advanced Respiratory Care
Division:	Health Sciences and Athletics
Department:	Respiratory Care
Course Disciplines:	Respiratory Technologies
Catalog Description:	This course provides instruction in physical examination associated with advanced respiratory care. Topics include physical assessment; collection of lab data; the interview process; and current imaging studies.
Prerequisite:	
Co-requisite:	
Recommended Preparation:	
Enrollment Limitation:	Students must be admitted to the El Camino College Respiratory Care Program or be graduated from an accredited respiratory care program.
Hours Lecture (per week):	3
Hours Laboratory (per week):	3
Outside Study Hours:	6
Total Course Hours:	108
Course Units:	4
Grading Method:	Letter Grade only
Credit Status:	Credit, degree applicable
Transfer CSU:	Yes
Effective Date:	7-19-2010
Transfer UC:	No
Effective Date:	
General Education: ECC	
Term:	
Other:	
CSU GE:	
Term:	
Other:	
IGETC:	
Term:	
Other:	
Student Learning Outcomes:	**SLO #1 Demonstrate or Explain Pulmonary Physical Exam**

	Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to conduct a complete pulmonary physical exam on patients with various pulmonary disorders. **SLO #2 Show How to Apply Physical Exam Knowledge to Patients** During classes & labs, students will be able to participate in physical exam of the chest VP and HPS mini simulations applying their knowledge of physical exam to patients and identifying various pulmonary conditions. **SLO #3 Demonstrate Cognitive Knowledge of Physical Exam of the Chest in RC** Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination on conducting, performing and interpreting Physical exam of the chest and 80% will obtain a grade of 70% or better.
Course Objectives:	1. Collect and analyze pertinent clinical data associated with physical examination in the clinical setting on live patients. 2. Identify procedures to obtain patient data using various advanced physical examination procedures. 3. Verify and note any erroneous data when reviewing advanced physical examination data on patient charts in the clinical setting. 4. Recommend alterations in respiratory care plans based on advanced physical examination data when indicated. 5. Interpret patient response to changes in respiratory care plans involving advanced respiratory therapeutics.
Major Topics:	**I. Current Imaging Studies with Advanced Chest Radiography (10 hours, lecture)** A. MRI 1. Equipment 2. Usage B. CT Scan 1. Equipment 2. Usage C. Advanced Chest Radiography 1. Contrast 2. Special Positioning 3. Usage **II. Physical Assessment (16 hours, lecture)** A. Palpation B. Percussion C. Auscultation D. Inspection **III. Lab Data (12 hours, lecture)** A. CBC B. Coagulation Studies C. Gram Stains D. Bronchoalveolar Lavage **IV. Interview Process (16 hours, lecture)** A. Social History B. Level of Pain C. Level of Consciousness D. Other Pertinent Data **V. CLINICAL LAB TO BE ARRANGED HOURS (54 hours, lab)** Monitoring, charting, performing physical assessment, collection of lab data, the interview process, and current imaging studies as indicated in the respiratory care of

	patients under students' direct care in hospital intensive care units, emergency rooms and other appropriate locations as assigned.
Total Lecture Hours:	54
Total Laboratory Hours:	54
Total Hours:	108
Primary Method of Evaluation:	2) Problem solving demonstrations (computational or non-computational)
Typical Assignment Using Primary Method of Evaluation:	The patient is a 60-year-old male complaining of abdominal pain, shortness of breath, and muscle weakness. You are asked to evaluate the patient and order all appropriate tests. Explain to your instructor which physical exam procedures you would select. Which lab data would be most appropriate for this patient at this time?
Critical Thinking Assignment 1:	You have the lab data for a 45-year-old female complaining of generalized pain throughout her entire body and shortness of breath. You need to conduct a bedside interview to help determine appropriate therapy. She states before the interview she was camping last week. Make a list of appropriate questions that would help to gain pertinent data to correlate with her lab data or diagnosis and treatment.
Critical Thinking Assignment 2:	You have imaging reports for a 20-year-old male who was a victim of a skateboard accident. He is complaining of dizziness, chest pain and shortness of breath. Describe in a one-page report what you should look for in each imaging study to help diagnose as well as select treatment. What further exams should be ordered to assist in this process?
Other Evaluation Methods:	Class Performance, Homework Problems, Laboratory Reports, Matching Items, Multiple Choice, Other Exams, Performance Exams, Quizzes, True/False, Written Homework
Instructional Methods:	Demonstration, Discussion, Group Activities, Lab, Lecture, Multimedia presentations
If other:	
Work Outside of Class:	Answer questions, Problem solving activity, Required reading, Skill practice, Study, Written work (such as essay/composition/report/analysis/research)
If Other:	
Up-To-Date Representative Texts:	James Stoller. Fundamentals of Respiratory Care. 13th ed. Elsevier, 2024.
Alternative Texts:	
Required Supplementary Readings:	
Other Required Materials:	
Requisite:	
Category:	
Requisite course(s): List both prerequisites and corequisites in this box.	
Requisite and Matching skill(s):Bold the requisite skill. List the corresponding course objective under each skill(s).	
Requisite Skill:	

Requisite Skill and Matching Skill(s): Bold the requisite skill(s). If applicable	
Requisite course:	
Requisite and Matching skill(s):Bold the requisite skill. List the corresponding course objective under each skill(s).	
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Requisite Skill and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s). If applicable	
Enrollment Limitations and Category:	Students must be admitted to the El Camino College Respiratory Care Program or be graduated from an accredited respiratory care program.
Enrollment Limitations Impact:	Students begin the clinical phase (A.S. degree requirements) of the Respiratory Care program after being accepted into the program.
Course Created by:	Roy Mekaru
Date:	04/23/2010
Original Board Approval Date:	07/19/2010
Last Reviewed and/or Revised by:	Roy Mekaru
Date:	03/22/2024
Last Board Approval Date:	06/17/2024
Effective Term:	FA 2025