



**I. GENERAL COURSE INFORMATION**

**Subject and Number:** Respiratory Care 296  
**Descriptive Title:** Physical Examination in Advanced Respiratory Care  
**Course Disciplines:** Respiratory Technologies  
**Division:** Health Sciences and Athletics

**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.

**Conditions of Enrollment:**

**Enrollment Limitation** Students must be admitted to the El Camino College Respiratory Care Program or be graduated from an accredited respiratory care program.

<b>Course Length:</b>	<b>X Full Term</b>	<b>Other (Specify number of weeks):</b>
<b>Hours Lecture:</b>	<b>3.00 hours per week</b>	<b>TBA Hours</b>
<b>Laboratory:</b>	<b>3.00 hours per week</b>	<b>X TBA</b>
<b>Course Units:</b>	<b>4.00</b>	

**Grading Method:** Letter  
**Credit Status:** Associate Degree Credit

**Transfer CSU:** Yes    **Effective Date: 07/19/2010**  
**Transfer UC:** No

**General Education:**

**El Camino College:**

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**CSU GE:**

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**IGETC:**

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**II. OUTCOMES AND OBJECTIVES**

**A. COURSE STUDENT LEARNING OUTCOMES (The course student learning outcomes are listed below, along with a representative assessment method for each. Student learning outcomes are not subject to review, revision or approval by the College Curriculum Committee)**

**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.

**B. Course Student Learning Objectives (The major learning objective for students enrolled in this course are listed below)**

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.

**III. OUTLINE OF SUBJECT MATTER (Topics are detailed enough to enable a qualified instructor to determine the major areas that should be covered as well as ensure consistency from instructor to instructor and semester to semester.)**

Lecture or Lab	Approximate Hours	Topic Number	Major Topic
Lecture	10	I	Current Imaging Studies with Advanced Chest Radiography A. MRI 1. Equipment 2. Usage B. CT Scan 1. Equipment 2. Usage C. Advanced Chest Radiography 1. Contrast 2. Special Positioning 3. Usage

Lecture	16	II	Physical Assessment A. Palpation B. Percussion C. Auscultation D. Inspection
Lecture	12	III	Lab Data A. CBC B. Coagulation Studies C. Gram Stains D. Bronchoalveolar Lavage
Lecture	16	IV	Interview Process A. Social History B. Level of Pain C. Level of Consciousness D. Other Pertinent Data
Lab	54	V	TO BE ARRANGED HOURS  Clinical 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	

#### IV. PRIMARY METHOD OF EVALUATION AND SAMPLE ASSIGNMENTS

##### A. PRIMARY METHOD OF EVALUATION:

Problem solving demonstrations (computational or non-computational)

##### B. 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?

##### C. COLLEGE-LEVEL CRITICAL THINKING ASSIGNMENTS:

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.
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?

**D. OTHER TYPICAL ASSESSMENT AND EVALUATION METHODS:**

- Performance exams
- Other exams
- Quizzes
- Written homework
- Laboratory reports
- Class Performance
- Homework Problems
- Multiple Choice
- Matching Items
- True/False

**V. INSTRUCTIONAL METHODS**

- Demonstration
- Discussion
- Group Activities
- Laboratory
- Lecture
- Multimedia presentations

**Note: In compliance with Board Policies 1600 and 3410, Title 5 California Code of Regulations, the Rehabilitation Act of 1973, and Sections 504 and 508 of the Americans with Disabilities Act, instruction delivery shall provide access, full inclusion, and effective communication for students with disabilities.**

**VI. WORK OUTSIDE OF CLASS**

- Study
- Answer questions
- Skill practice
- Required reading
- Problem solving activities
- Written work

**Estimated Independent Study Hours per Week: 6**

**VII. TEXTS AND MATERIALS**

**A. UP-TO-DATE REPRESENTATIVE TEXTBOOKS**

Robert L. Wilkins. Fundamentals of Respiratory Care. 10th ed. Elsevier, 2013. Discipline Standard

**B. ALTERNATIVE TEXTBOOKS**

**C. REQUIRED SUPPLEMENTARY READINGS**

**D. OTHER REQUIRED MATERIALS**

## VIII. CONDITIONS OF ENROLLMENT

### A. Requisites (Course and Non-Course Prerequisites and Corequisites)

Requisites	Category and Justification
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### B. Requisite Skills

Requisite Skills
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### C. Recommended Preparations (Course and Non-Course)

Recommended Preparation	Category and Justification
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### D. Recommended Skills

Recommended Skills
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### E. Enrollment Limitations

Enrollment Limitations and Category	Enrollment Limitations Impact
Students must be admitted to the El Camino College Respiratory Care Program or be graduated from an accredited respiratory care program.	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 on 04/23/2010.

BOARD APPROVAL DATE: 07/19/2010

LAST BOARD APPROVAL DATE: 05/18/2020

Last Reviewed and/or Revised by: Roy Mekaru

Date: 02/02/2020

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