



El Camino College  
COURSE OUTLINE OF RECORD – Official

<b>Subject:</b>	RC
<b>Course Number:</b>	BSRC 481
<b>Descriptive Title:</b>	Case Management in Pulmonary Emergency Medicine
<b>Division:</b>	Health Sciences and Athletics
<b>Department:</b>	Respiratory Care
<b>Course Disciplines:</b>	Respiratory Technologies
<b>Catalog Description:</b>	This course provides an opportunity to share pulmonary emergency medicine experience with other professionals that have particular importance for Respiratory Care Practitioners. The sharing will be in the form of a solution for a case study of a problem in pulmonary emergency medicine focusing on respiratory care solutions. Solutions will include evidence-based medicine justifications as well as personnel management and any budgetary concerns. The solutions provided by the students highlight challenges faced in delivering care and provide a mechanism for frontline clinicians to engage with others who may have had similar experiences.
<b>Prerequisite:</b>	Admission to El Camino College Respiratory BS Program  Eligibility for RCP license in California: 1. Graduation from a CoARC accredited Respiratory Care Program 2. A.S. degree from an accredited Community College 3. Completion of the 39 required CSU-GE Transfer Pattern units (IGETC)
<b>Co-requisite:</b>	
<b>Recommended Preparation:</b>	
<b>Enrollment Limitation:</b>	
<b>Hours Lecture (per week):</b>	4
<b>Hours Laboratory (per week):</b>	0
<b>Outside Study Hours:</b>	8
<b>Total Course Hours:</b>	72
<b>Course Units:</b>	4
<b>Grading Method:</b>	Letter Grade only
<b>Credit Status:</b>	Credit, degree applicable
<b>Transfer CSU:</b>	
<b>Effective Date:</b>	
<b>Transfer UC:</b>	
<b>Effective Date:</b>	
<b>General Education ECC:</b>	
<b>Term:</b>	
<b>Other:</b>	
<b>CSU GE:</b>	

<b>Term:</b>	
<b>Other:</b>	
<b>IGETC:</b>	
<b>Term:</b>	
<b>Other:</b>	
<b>Student Learning Outcomes:</b>	<p><b>SLO #1 Organizational and Developmental Skills</b></p> <p>Demonstrate organizational and developmental skills when designing the final assignment formulating an evaluation of components of critical care related to cardio-pulmonary issues and the respiratory care practitioner's scope of practice utilizing advanced diagnostic techniques.</p> <p><b>SLO #2 Research Skills</b></p> <p>Integrate the broad range of research skills learned across the curriculum to analyze the role of pharmaceuticals, pharmacokinetics, and pharmacodynamics in a respiratory care emergency case.</p> <p><b><u>SLO #3 EBM Data Analysis</u></b></p> <p>Completion of the final assignment using the methodological approach, collection, measurement, and evidence-based medical data analysis.</p>
<b>Course Objectives:</b>	<ol style="list-style-type: none"> <li>1. Examine diseases and their pathophysiology often seen in pulmonary emergency medicine.</li> <li>2. Analyze the impact of common disease processes during emergency department visitations on personnel management and budgetary concerns.</li> <li>3. Develop treatment plans for common pulmonary diseases seen in the emergency department using evidence-based medicine.</li> </ol>
<b>Major Topics:</b>	<p><b>I. Pulmonary Diseases/Emergency medicine (24 hours, lecture)</b></p> <p>A. Adult</p> <ol style="list-style-type: none"> <li>1. Current accepted treatment modalities</li> <li>2. Standard of practice in special circumstances</li> <li>3. Reported patient preferences</li> </ol> <p>B. Infant</p> <ol style="list-style-type: none"> <li>1. Current accepted treatment modalities</li> <li>2. Standard of practice in special circumstances</li> <li>3. Reported patient preferences</li> </ol> <p><b>II. Disease Processes/Emergency Department (24 hours, lecture)</b></p> <p>A. Personnel management</p> <ol style="list-style-type: none"> <li>1. Patient/practitioner ratios</li> <li>2. Current staffing rubrics</li> <li>3. Policy review concerning staff workload</li> </ol> <p>B. Funding allocation</p> <ol style="list-style-type: none"> <li>1. Emergency staffing funding allocation review</li> <li>2. Departmental vs. Hospital funding allocation review</li> </ol> <p><b>III. Treatment Plans for Common Diseases (24 hours, lecture)</b></p> <p>A. Emergency Department</p> <ol style="list-style-type: none"> <li>1. Evidence-based medicine justification</li> </ol>

	2. Managerial Issues and solutions
<b>Total Lecture Hours:</b>	72
<b>Total Laboratory Hours:</b>	0
<b>Total Hours:</b>	72
<b>Primary Method of Evaluation:</b>	1) Substantial writing assignments
<b>Typical Assignment Using Primary Method of Evaluation:</b>	Research emergency treatments of COVID-19 with mechanical ventilation and develop a hospital plan that includes treatment plan, staffing, and funding portions. Your plan must include justification for each portion of your plan based on the evidence found in your research.
<b>Critical Thinking Assignment 1:</b>	Examine current personnel management models of personnel and funding allocation in hospital emergencies such as COVID-19 and develop a budget to handle this situation as if it was going to last an entire fiscal year.
<b>Critical Thinking Assignment 2:</b>	Analyze your hospital plan for patients requiring strict isolation during emergencies and based on research of evidence -based medicine and strict isolation emergencies, develop your own plan with justification from your research. If your plan is the same as your hospital plan, then provide justification for each portion of the plan.
<b>Other Evaluation Methods:</b>	Reading Reports, Term or Other Papers, Written Homework
<b>If Other:</b>	
<b>Instructional Methods:</b>	Discussion, Lecture, Multimedia presentations
<b>If other:</b>	
<b>Work Outside of Class:</b>	Problem solving activity, Required reading, Study, Written work (such as essay/composition/report/analysis/research)
<b>If Other:</b>	
<b>Up-To-Date Representative Textbooks:</b>	Heather R. Hall. <u>Evidence-Based Practice: An Integrative Approach to research, Administration, and Practice</u> . 3 <sup>rd</sup> ed. Jones & Bartlett Learning, 2020  Michael Glass. <u>Pulmonary Medicine: An Evidence Based Approach</u> . American Medical Publishers, 2022
<b>Alternative Textbooks:</b>	
<b>Required Supplementary Readings:</b>	
<b>Other Required Materials:</b>	
<b>Requisite</b>	
<b>Category</b>	
<b>Requisite course:</b>	
<b>Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).</b>	
<b>Requisite Skill:</b>	Admission to El Camino College Respiratory Care BS Program

	<p>Eligibility for RCP license in California</p> <p>Graduation from a CoARC accredited Respiratory Care Program</p> <p>AS Degree from an accredited community college</p>
<b>Requisite Skill and Matching skill(s): Bold the requisite skill(s) if applicable</b>	<p>To receive a Baccalaureate of Science degree in Respiratory Care, students are required to meet the minimum eligibility requirements for Respiratory Care license in California. These are:</p> <ol style="list-style-type: none"> <li>1. 39 units of CSU-GE transferable units from an accredited community college.</li> <li>2. 40 units are credited to the A.S. Respiratory Care degree courses.</li> </ol>
<b>Requisite course:</b>	
<b>Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).</b>	
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<b>Enrollment Limitations and Category:</b>	
<b>Enrollment Limitations Impact:</b>	
<b>Course Created by:</b>	Roy Mekar
<b>Date:</b>	11/7/2022
<b>Original Board Approval Date:</b>	01/17/2023