



El Camino College
COURSE OUTLINE OF RECORD – Official

Subject:	RC
Course Number:	BSRC 485
Descriptive Title:	Case Management in Sleep Apnea and Pulmonary Function Testing Issues
Division:	Health Sciences and Athletics
Department:	Respiratory Care
Course Disciplines:	Respiratory Technologies
Catalog Description:	<p>This course provides an opportunity to share sleep apnea or pulmonary function testing 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 sleep apnea or pulmonary function testing issue 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.</p>
Prerequisite:	<p>Prerequisite - Admission to El Camino College</p> <p>Eligibility for RCP license in California:</p> <ol style="list-style-type: none">1. Graduation from a CoARC accredited Respiratory Care Program2. A.S. degree from an accredited Community College3. Completion of the 39 required CSU-GE Transfer Pattern units (IGETC)
Co-requisite:	
Recommended Preparation:	
Enrollment Limitation:	
Hours Lecture (per week):	4
Hours Laboratory (per week):	0
Outside Study Hours:	8
Total Course Hours:	72
Course Units:	4
Grading Method:	Letter Grade only
Credit Status:	Credit, degree applicable
Transfer CSU:	
Effective Date:	
Transfer UC:	
Effective Date:	

General Education ECC:	
Term:	
Other:	
CSU GE:	
Term:	
Other:	
IGETC:	
Term:	
Other:	
Student Learning Outcomes:	<p>SLO #1 Organizational and Developmental Skills</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 in sleep apnea.</p> <p>SLO #2 Research Skills</p> <p>Integrate the broad range of research skills learned across the curriculum to analyze the role of pharmaceuticals, pharmacokinetics, and pharmacodynamics in treating a respiratory care in sleep apnea cases.</p> <p>SLO #3 EBM Data Analysis</p> <p>Completion of the final assignment using the methodological approach, collection, measurement, and evidence-based medical data analysis.</p>
Course Objectives:	<ol style="list-style-type: none"> 1. Examine sleep apnea and pulmonary function testing issues. 2. Analyze the impact of Sleep Apnea and Pulmonary Function Testing Issues on respiratory care departments. 3. Develop treatment plans for Sleep Apnea and Pulmonary Function Testing Issues using evidence-based medicine.
Major Topics:	<p>I. Sleep Apnea/Pulmonary Function Testing (18 hours, lecture)</p> <ol style="list-style-type: none"> A. Hospital adult medical issues B. Homecare adult medical issues C. Emergency infant medical issues D. Homecare infant medical issues <p>II. Impact of Sleep Apnea and Pulmonary Function Testing/Respiratory Care Department (18 hours, lecture)</p> <ol style="list-style-type: none"> A. Personnel management B. Funding allocation C. Treatment Modalities <p>III. Treatment Plans Sleep Apnea (18 hours, lecture)</p> <ol style="list-style-type: none"> A. Usage of EBM to develop treatment plans B. Developing managerial solutions in homecare

	IV. Pulmonary Function Testing (PFT) Issues (18 hours, lecture) A. Usage of EBM to develop solutions in PFT issues B. Developing managerial solutions for PFT issues
Total Lecture Hours:	72
Total Laboratory Hours:	0
Total Hours:	72
Primary Method of Evaluation:	1) Substantial writing assignments
Typical Assignment Using Primary Method of Evaluation:	Conduct research on long-term management of sleep apnea patients 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.
Critical Thinking Assignment 1:	Examine current management models of personnel and funding allocation in respiratory care departments for issues such as pulmonary function testing and develop a budget to handle this situation as if it was going to last an entire fiscal year.
Critical Thinking Assignment 2:	Analyze your hospital plan for sleep apnea patients requiring follow-ups and based on research of evidence-based medicine, 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.
Other Evaluation Methods:	Reading Reports, Term or Other Papers, Written Homework
If Other:	
Instructional Methods:	Discussion, Lecture, Multimedia presentations
If other:	
Work Outside of Class:	Problem solving activity, Required reading, Study, Written work (such as essay/composition/report/analysis/research)
If Other:	
Up-To-Date Representative Textbooks:	Heather R. Hall. <u>Evidence-Based Practice: An Integrative Approach to research, Administration, and Practice.</u> 3 rd ed. Jones & Bartlett Learning, 2020 Michael Glass. <u>Pulmonary Medicine: An Evidence Based Approach.</u> American Medical Publishers, 2022
Alternative Textbooks:	
Required Supplementary Readings:	
Other Required Materials:	
Requisite	
Category	
Requisite course:	
Requisite and Matching skill(s): Bold the requisite skill. List the corresponding	

course objective under each skill(s).	
Requisite Skill:	Admission to El Camino College Respiratory Care BS Program Eligibility for RCP license in California Graduation from a CoARC accredited Respiratory Care Program AS Degree from an accredited community college
Requisite Skill and Matching skill(s): Bold the requisite skill(s). if applicable	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: 1. 39 units of CSU-GE transferable units from an accredited community college. 2. 40 units are credited to the A.S. Respiratory Care degree courses.
Requisite course:	
Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).	
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Enrollment Limitations and Category:	
Enrollment Limitations Impact:	
Course Created by:	Roy Mekaru
Date:	11/7/2022
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