



El Camino College
COURSE OUTLINE OF RECORD – Official

Subject:	RC
Course Number:	BSRC 375
Descriptive Title:	Evidenced-Based Medicine in Respiratory Care
Division:	Health Sciences and Athletics
Department:	Respiratory Care
Course Disciplines:	Respiratory Technologies
Catalog Description:	This course addresses the practice of Evidence-Based Medicine (EBM) in respiratory care. EBM is used so that respiratory care practitioners can make "conscientious, explicit, and judicious use of current best evidence" in their everyday practice. The student will use the process of evidence synthesis which is using systematic reviews of the medical literature to evaluate the best evidence on specific respiratory care issues. Then, using the concept of knowledge translation, develop clinical practice procedures from the selected treatment options for specific respiratory care cases based on the best research, patient preferences and individual patient characteristics.
Prerequisite:	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)
Co-requisite:	
Recommended Preparation:	
Enrollment Limitation:	
Hours Lecture (per week):	3
Hours Laboratory (per week):	0
Outside Study Hours:	6
Total Course Hours:	54
Course Units:	3
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 Ventilator Issues</p> <p>Demonstrate organizational and developmental skills when designing the final assignment dealing with ventilator associated issues associated with respiratory care services .</p> <p>SLO #2 Research Skills</p> <p>Integrate the broad range of research skills learned across the curriculum to formulate a plan to develop, and deliver high quality, ventilator associated respiratory care services.</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 the basic concepts of Evidence-Based Medicine. 2. Analyze the usage of Evidence-Based Medicine in Respiratory Care. 3. Develop skills needed in usage of Evidence-Based Medicine. 4. Select medical therapies in various situations using Evidence-Based Medicine.
Major Topics:	<p>I. Evidence-Based Medicine in Respiratory Care (8 hours, lecture)</p> <p>A. History</p> <p>B. Concepts</p> <ol style="list-style-type: none"> 1. Background questions in chronic and acute pulmonary conditions 2. Foreground questions in chronic and acute pulmonary conditions 3. Basic EBM skills adapted to pulmonary issues <p>II. Research in Evidence-Based Medicine in Respiratory (10 hours, lecture)</p> <p>A. Procedures</p> <ol style="list-style-type: none"> 1. Ask 2. Acquire 3. Appraise 4. Apply 5. Assess <p>B. Reporting</p> <ol style="list-style-type: none"> 1. Assessing research results when dealing with pulmonary conditions 2. Disseminating results when dealing with pulmonary conditions <p>III. Technical Skills in usage of Evidence-Based Medicine (18 hours, lecture)</p> <p>A. Organizational</p>

	<ul style="list-style-type: none"> 1. Reviewing respiratory departments <ul style="list-style-type: none"> A. Policies B. Programs C. Procedures B. Developmental <ul style="list-style-type: none"> 1. Using EBM tool kit in pulmonary setting <p>IV. Practical Application of Evidence-Based Medicine (18 hours, lecture)</p> <ul style="list-style-type: none"> A. Problem solving with respiratory care issues
Total Lecture Hours:	54
Total Laboratory Hours:	0
Total Hours:	54
Primary Method of Evaluation:	1) Substantial writing assignments
Typical Assignment Using Primary Method of Evaluation:	Research on the use of aerosolized antibiotics and develop a delivery plan for patients during mechanical ventilation and include justification for your plan based on the evidence found in your research.
Critical Thinking Assignment 1:	Research use of Dual Ventilation on mechanical ventilation patients and submit a written report including analysis of your departmental plan and any modification with justification to that plan.
Critical Thinking Assignment 2:	Examine the practice of intubation of 24-week newborns and write a report including analysis of your departmental plan and any modification with justification to that 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:	<p>Heather R. Hall. <u>Evidence-Based Practice: An Integrative Approach to research, Administration, and Practice</u>. 3rd ed. Jones & Bartlett Learning, 2020</p> <p>Michael Glass. <u>Pulmonary Medicine: An Evidence Based Approach</u>. American Medical Publishers, 2022</p>
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:	<p>Admission to El Camino College Respiratory Care BS Program</p> <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>
Requisite Skill and Matching skill(s): Bold the requisite skill(s), if applicable	<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"> 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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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:	
Enrollment Limitations Impact:	
Course Created by:	Roy Mekar
Date:	11/7/2022
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