



El Camino College
COURSE OUTLINE OF RECORD – Official

Course Acronym:	RC
Course Number:	297
Descriptive Title:	Perinatal and Pediatric Care in Advanced Respiratory Care
Division:	Health Sciences and Athletics
Department:	Respiratory Care
Course Disciplines:	Respiratory Technologies
Catalog Description:	This course provides instruction in perinatology and pediatrics associated with advanced respiratory care. Topics include respiratory care monitoring; diagnostics; advanced concepts in emergency procedures; and current topics in perinatal and pediatric respiratory care. Laboratory experiments and clinical visitation will be used to complement lectures.
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:	

<p>Student Learning Outcomes:</p>	<p>SLO #1 Demo Competent Management of Perinatal and Pediatric Patients</p> <p>Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to manage perinatal and pediatric patients receiving all forms of respiratory care for various pulmonary disorders.</p> <p>SLO #2 Contrast Neonatal & Pediatric Care</p> <p>During classes & labs, students will be able to contrast and take appropriate action when given mini simulations involving neonatal vs pediatric patients requiring respiratory care.</p> <p>SLO #3 Demonstrate Cognitive Knowledge of Perinatal and Pediatric Respiratory Care</p> <p>Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination on the differences in respiratory care for neonatal, pediatric and adult patients requiring RC and 80% will obtain a grade of 70% or better.</p>
<p>Course Objectives:</p>	<ol style="list-style-type: none"> 1. Collect and analyze pertinent clinical patient data associated with perinatal and pediatric respiratory care. 2. Recommend procedures to obtain patient data using various types of diagnostic and monitoring equipment. 3. Verify and note any erroneous patient data or computations when using various forms of monitoring and diagnostic equipment. 4. Recommend alterations in perinatal and pediatric patient care when indicated. 5. Note and interpret patient response to various changes in perinatal and pediatric care. 6. Recommend advanced emergency procedures to treat perinatal and pediatric patients. 7. Note and interpret patient response to various advanced emergency procedures.
<p>Major Topics:</p>	<p>I. Respiratory Care Monitoring in Perinatal and Pediatric Care (13 hours, lecture)</p> <ol style="list-style-type: none"> A. Fetal Heart Monitoring B. Apnea Monitors <p>II. Respiratory Care Diagnostics in Perinatal and Pediatric Respiratory Care (15 hours, lecture)</p> <ol style="list-style-type: none"> A. Bedside pulmonary function testing B. Arterial Line usage <p>III. Advanced Concepts in Emergency Procedures (12 hours, lecture)</p> <ol style="list-style-type: none"> A. Pediatric advanced life support B. Neonatal advanced life support <p>IV. Current Topics in Perinatal and Pediatric Respiratory Care (14 hours, lecture)</p> <ol style="list-style-type: none"> A. Artificial surfactant usage B. Tidal volume monitoring in neonates <p>V. CLINICAL LAB TO BE ARRANGED HOURS (54 hours, lab)</p> <p>Monitoring, charting, performing respiratory care monitoring, diagnostics, advanced concepts in emergency procedures 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.</p>
<p>Total Lecture Hours:</p>	<p>54</p>
<p>Total Laboratory Hours:</p>	<p>54</p>
<p>Total Hours:</p>	<p>108</p>
<p>Primary Method of Evaluation:</p>	<p>2) Problem solving demonstrations (computational or non-computational)</p>

Typical Assignment Using Primary Method of Evaluation:	A one-day-old male patient on a ventilator in the intensive care unit is determined to require surfactant therapy to treat his respiratory disease. Explain to the instructor what monitoring should be applied in this situation and, based on the patient's response to the surfactant, how his therapy should be altered.
Critical Thinking Assignment 1:	A two-week-old male presents in the emergency department. The patient has rapid shallow breathing coupled with cyanosis. Recommend to your instructor appropriate methods of evaluation of the patient and emergency procedures recommended for this patient.
Critical Thinking Assignment 2:	A six-month-old female is admitted into the Intensive Care Unit and the doctor needs you to provide diagnostic information for the patient before treatment can be ordered. Recommend to your instructor appropriate diagnostics and possible forms of monitoring for this patient.
Other Evaluation Methods:	Homework Problems, Laboratory Reports, Matching Items, Multiple Choice, Other Exams, Performance Exams, True/False, Written Homework
Instructional Methods:	Demonstration, Discussion, Group Activities, Lab, Lecture, Multimedia presentations, Role play/simulation
If other:	
Work Outside of Class:	Problem solving activity, Required reading, Skill practice, Study, Written work (such as essay/composition/report/analysis/research)
If Other:	
Up-To-Date Representative Texts:	Walsh et al.. <u>Neonatal and Pediatric Respiratory Care</u> . 6th ed. Saunders, 2022.
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).	
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Requisite Skill and Matching Skill(s): Bold the requisite skill(s). If applicable	
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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