



I. GENERAL COURSE INFORMATION

Subject and Number: Respiratory Care 297
Descriptive Title: Perinatal and Pediatric Care in Advanced Respiratory Care
Course Disciplines: Respiratory Technologies
Division: Health Sciences and Athletics

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.

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.

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

Grading Method: Letter
Credit Status: Associate Degree Credit

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

General Education:

El Camino College:

CSU GE:

IGETC:

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 Demo Competent Management of Perinatal and Pediatric Patients

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.

SLO #2 Contrast Neonatal & Pediatric Care

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.

SLO #3 Demonstrate Cognitive Knowledge of Perinatal and Pediatric Respiratory Care

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.

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

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.

- 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	13	I	Respiratory Care Monitoring in Perinatal and Pediatric Care A. Fetal Heart Monitoring B. Apnea Monitors
Lecture	15	II	Respiratory Care Diagnostics in Perinatal and Pediatric Respiratory Care A. Bedside pulmonary function testing B. Arterial Line usage
Lecture	12	III	Advanced Concepts in Emergency Procedures A. Pediatric advanced life support B Neonatal advanced life support
Lecture	14	IV	Current Topics in Perinatal and Pediatric Respiratory Care A. Artificial surfactant usage B. Tidal volume monitoring in neonates

Lab	54	V	TO BE ARRANGED HOURS Clinical Lab 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.
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:

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.

C. COLLEGE-LEVEL CRITICAL THINKING ASSIGNMENTS:

1. 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.
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.

D. OTHER TYPICAL ASSESSMENT AND EVALUATION METHODS:

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

V. INSTRUCTIONAL METHODS

Demonstration
Discussion
Group Activities
Laboratory
Lecture
Multimedia presentations
Role Play
Simulation

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
- 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

Walsh et al.. Perinatal and Pediatric Respiratory Care. 3rd ed. Saunders, 2010. 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

C. Recommended Preparations (Course and Non-Course)

Recommended Preparation	Category and Justification
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D. Recommended Skills

Recommended Skills

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
20236**

Date: 02/02/2020