

**Skyline College
Official Course Syllabus
2009 Fall Semester**

Respiratory Therapy 490

Division: Science, Math, Technology

Neonatal and Pediatric Respiratory Care

Monday 10:10am – 11:50am, Lab 12:20pm – 2:50pm

Building Pacific Heights, Room 7215

CRN# 30743

Instructor: Raymond Hernandez

650-738-4457

hernandezr@smccd.edu

Office: PH 207 **Office hours:** Mon 9am-10am Tues/Wed. 12pm-2pm

Website: <http://www.smccd.net/accounts/hernandezr/index.htm>

Course Prerequisites:

Admission to the Respiratory Therapy Program

Required Text:

Comprehensive Perinatal and Pediatric Resp. Care
Whitaker, 4th ed.

Mosby's Respiratory Care Equipment,
Cairo, Pilbeam, 7th ed.

Laboratory Exercises for Competency in Respiratory Care
Butler et al, FA Davis

Optional Text:

Neonatal/Pediatric Respiratory Care, A Critical Care Pocket Guide
Dana Oakes

Course Description:

By applying the normal and abnormal cardiorespiratory anatomy and physiology of the newborn and pediatric patient, the student will master the basic foundation and competent delivery of respiratory care with this age specific population. This course will give the student the necessary background to pursue further studies in this specialized area.

Course Objectives:

Through lecture, discussion, and practice the student will meet the following:

1. Differentiate between normal and abnormal fetal development
2. Discuss and perform assessment of the healthy and ill neonate
3. Demonstrate airway management and resuscitation techniques of the neonate
4. Identify etiology, pathophysiology, clinical findings of respiratory disease and competently apply respiratory care modalities in the neonatal and pediatric patient.

Methods of instruction or required student preparation: Lectures, discussion, small group and individual assignments, lab assignments, web-based instruction and assignments constitute the main activities of the class. A collaborative research paper and presentation to the class will be required. You should come to class having read assigned materials, completed assigned homework, and be prepared to participate in discussions. If you do not understand the assignment, please contact me via email or see me during office hours.

Course Attendance Policy: Attendance and participation are key to success in the course and program. Chronic tardiness and absence is unacceptable. Please let the instructor know via email or phone message if you are unable to attend class or anticipate that you will be late prior to the scheduled class meeting.

Make-up and Extra-credit Policy: All assigned homework is due at the beginning of class for full credit. Late assignments will receive half of graded credit provided they are turned in by the beginning of the following class. Assignments received after this will receive no credit.

If an extenuating circumstance requires you to be absent (e.g., you have the flu, your employer requires you to miss class, there is a death in your family), you may submit your assignment via e-mail or you may leave it in my mailbox in the SMT division office (building 7, 2nd floor) before the due date and time. It is your responsibility to ensure that your assignment reaches me; I will acknowledge via return email all email submissions.

Extra credit opportunities may be available throughout the semester to all students as announced.

Class conduct policy: Cell phones must be turned off and put away during class. No talking during lectures unless instructed to do so. Please respect your student colleagues participation during class. When another student is presenting, listen actively and encourage him/her. You are also responsible for adhering to the Code of Student Conduct outlined in the College Catalog as well as the Respiratory Therapy Program Handbook.

Academic Integrity: the work you submit/present must be your own. The Skyline College Catalog has a complete statement defining cheating and plagiarism. If you are caught cheating or plagiarizing another person's work, you may be disciplined in one or more of the following ways:

- You may be given an F on the assignment or test,
- You may be referred to the College Disciplinarian for further sanctions which range from a warning to expulsion from Skyline College.

Course Evaluation: This course may be taken for a letter grade. Your grade will be determined by (approximation):

Participation, lab assignments, and Homework:	40%
Quizzes and Tests:	60%

The grading scale is as follows:

A	90-100%
B	80-89%
C	75-79%
D	60-74%
F	<60%

Disability: In coordination with the DSPS office, reasonable accommodation will be provided for eligible students with disabilities. If you do not have an accommodation letter, please contact the DSPS Office at (650) 738-4280

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RPTH 490
Neonatal and Pediatric Respiratory Care

- OCT 19 Chapters 1,2 & 3: Embryological Development, Assessment, Labor and Delivery
pp. 3-90
- OCT 26 Chapter 4: Resuscitation of the Newborn
pp. 90- 110
Lab: Neonatal Resuscitation
Post test Ch. 1, 2, 3, 4 due
- NOV 2 Chapter 5: Assessment of the Neonatal and Pediatric Patient
Chapter 9: Assessment of Oxygenation and Ventilation
CPG: Transcutaneous Blood Gas Monitoring for Neonatal and Pediatric Patients
Capillary Blood Gas Sampling for Neonatal and Pediatric Patients
Lab: Neonatal/Pediatric Respiratory Care Procedures
pp. 111-146, 259-287
Post test Ch. 5,9 due
- NOV 9 Chapter 6: Respiratory Care Procedures
pp. 147-187
Post test Ch. 6 due
- NOV 16 Chapter 13: Interpretation of Chest X-Rays
pp. 408-444
Post test Ch. 13 due
- NOV 23 **TEST**
Chapter 10: Perinatal Lung Disease
pp. 293-334
pp. 557-576
Post test Ch. 10, 17 due
- NOV 30 Chapter 8: Neonatal / Pediatric Pharmacology
Chapter 11: Persistent Perinatal Illness
pp. 222-258
pp. 335-361
Post test Ch. 8, 11 due

- DEC 7 AARC Conference
- DEC 14 **TEST** (Take home)
Chapter 14: Concepts of Mechanical Ventilation
Chapter 17: Special Procedures and Ventilatory Techniques
pp. 447-471
pp. 557-576
CPG: Neonatal Time-Triggered, Pressure-Limited, Timed-Cycle,
 Mechanical Ventilation.
 Application of CPAP to Neonates Via Nasal Prongs or
 Nasopharyngeal Tube.
Mosby's Respiratory Care
 Overview 556-557
 VIP Bird 587-593
 Post test Ch. 14, 17 due
- JAN 22, 09 Chapter 12: Pediatric Diseases
Chapter 15: Management of the Patient-ventilator system
pp. 362-407
pp. 474-511
Mosby's Respiratory Care
 HFV 309-313
 Post test Ch. 12, 15 due

Post test homework to be completed on scantron sheets