

University of Texas Medical Branch at Galveston  
Department of Respiratory Care  
RESC 3116- Respiratory Therapeutics Laboratory  
Course Syllabus- Fall, 2009

Course description:

This course provides the beginning student with knowledge and skills in therapeutic procedures and equipment applied to sub-acute patient care. The students study clinical procedures and equipment in the classroom and apply the knowledge and skills in the laboratory.

1 SH credit    3 hrs. lab

Instructor:    Ijaz Ahmed, MD., RRT  
Office Hours: TBA

Textbooks:    Wilkins RL, Stoller JK, Scanlan CL, Egan's Fundamentals of Respiratory Care, (8th ed.) C.V. Mosby, 2003.  
Branson R., Hess D., Chatburn R., Respiratory Care Equipment, J.B. Lippincott Williams & Wilkins, 1999.

Course Goals:

1. Demonstrate knowledge and skills in delivery of medical gas therapy, and equipment used for this therapeutic.
2. Demonstrate knowledge and skills in delivery of aerosol and humidity therapy, and equipment used for this therapeutic.
3. Demonstrate knowledge and skills in delivery of hyperinflation techniques, and equipment used for this therapeutic.
4. Demonstrate knowledge and skills in chest physical therapy, and equipment used for this therapeutic.

Course grades:

Grades for the course are derived as follows:

Participation	10%
Quizzes	10%
Laboratory Assignments	20%
Laboratory Check-offs	60%

Letter grades are assigned according to the total points accrued for the course as follows:

90-100 points	=	A
80-89 points	=	B
70-79 points	=	C
60-69 points	=	D
Below 60 points	=	F

<sup>1</sup>All procedures listed on the Laboratory Competency Summary are required to complete this course. Non-completion of a procedure will result in a grade of incomplete for the course.

### Class Schedule Fall, 2009

Laboratories will be as scheduled below.

Week 1	John Sealy Hospital- services, personnel, general policies, scrub orders
Week 2	Labor Day Holiday- enjoy!! No Laboratory
Week 3	Aseptic & isolation procedures
Week 4	Gas cylinders, regulators, flow meters, blenders
Week 5	Appliances, gas analyzers
Week 6	Evaluation on oxygen therapy procedures
Week 7	Humidifiers and nebulizers
Week 8	Aerosol therapy
Week 9	Aerosol therapy, demonstration and practice
Week 10	Evaluation on aerosol therapy procedures
Week 11	Bird and Bennett pressure ventilators, Hyperinflation therapy; Mucous clearance adjuncts procedures- demonstration, and practice
Week 12	Evaluation on hyperinflation therapy procedures and mucous clearance adjuncts; Demonstration and practice of chest physical therapy
Week 13	Demonstration of vest therapy; Evaluation on chest physical therapy procedures
Week 14	TBA
Week 15	Monday Finals Week Study Day - No Classes      Final exam date TBA

NOTE: All laboratory procedures MUST be satisfactorily completed by the end of the semester. Students unable to pass procedures during their regular laboratory time must make an appointment with Program Faculty for re-evaluation at another time, and are responsible for bringing a "patient" with them.

[www.rc.utmb.edu](http://www.rc.utmb.edu) Then go to "courses" and click on RESC 3415 Respiratory Therapeutics.