

Specialities in Respiratory Care (RSPT 2147)

Credit: 1 semester credit (1 hour lecture, 1 hour lab)

Prerequisite: RSPT 1201, RSPT 1113, RSPT 1329, RSPT 1207, RSPT 2310, RSPT 1325, RSPT 1331, RSPT 1335, RSPT 2353, RSPT 1360, RSPT 1261, RSPT 1262, RSPT 2314, RSPT 2319, RSPT 2255, RSPT 2361



Course Description

Emerging and specialty practices in respiratory care.

Required Textbook and Materials

Fundamentals of Respiratory Care: by Egan
ISBN: 978-0-323-03657-3

Course Objectives:

- Delineate the respiratory therapists' role in emerging and specialty practices in:
- Applies text book learning plans, the theory, concepts and skills that are involved in the use of specialized diagnostic areas and disease management. (SCANS F1, F6, F7, F8, F9, F12)
- Explains the role of the respiratory therapist in each of the above special diagnostic areas above. (SCANS F6, F16, F14, F16 C14, C12, C15, C15, C16, C18, C19, C20)
- Maintains patient confidentiality by practicing regulations, laws and HIPPA standards (SCANS F5, F12, F13, F16, F17, C11,)
- Works as a team member (SCANS C12, C9)
- Demonstrates appropriate written and verbal communication skills by using the correct terminology of the medical profession (SCANS F1, F2, F3, F5, F6, F7, F8, F9, C5, C7,)

SCANS Skills and Competencies

Beginning in the late 1980's, the U.S. Department of Labor Secretary's Commission on Achieving Necessary Skills (SCANS) conducted extensive research and interviews with business owners, union leaders, supervisors, and laborers in a wide variety of work settings to determine what knowledge workers needed in order to perform well on a job. In 1991 the Commission announced its findings in *What Work Requires in Schools*. In its research, the Commission determined that "workplace know-how" consists of two elements: foundation skills and workplace competencies.

Course Outline:

- I. Adult Critical Care Specialist
 - A. The role of the Respiratory Therapist in Respiratory critical care.
 - B. The role of the Respiratory Therapist in general critical care.
 - C. Content outlined in the Adult Critical Care Specialist Examination that is currently being developed by the NBRC.

- II. Diagnostics
 - A. The role of the Certified Pulmonary Function Technician.
 - B. The role of the Registered Pulmonary Function Technician.
 - C. The content outlined by the National Board of Respiratory Care for the Certified Pulmonary Function Technician CPFT),
 - D. The content outlined for the Registered Pulmonary Function Technician (RPFT) specialist exam.

- III. Neonatal Pediatric Specialist (NPS)
 - A. The roles of the RT and the other team members in the Neonatal and Pediatric Intensive Care Units.
 - B. The content outlined by the national Board of Respiratory Care for the Neonatal Pediatric Specialist exam.
 - C. Take the Neonatal Pediatric Specialty practice exam.

- IV. Sleep Disorder Specialist (CRT-SDS, RRT-SDS)
 - A. The roles of the Sleep Disorder Specialist and other team members.
 - B. The role of the Polysomnography Scorer.
 - C. The content outlined by the National Board of Respiratory Care for the Sleep Disordered Specialist exam.
 - D. Take the Sleep Disorder Specialty practice exam

- V. Management
 - A. The role of the Respiratory Care Department manager
 - B. The role of the respiratory therapy supervisor
 - C. The role of the lead therapists

- VI. Assisting the physician
 - A. Discuss the role acting as the assistant to the physician for the following procedures:
 - 1. Intubation
 - 2. Bronchoscopy
 - 3. Thoracentesis

4. Tracheostomy
5. Chest Tube Insertion
6. Insertion of venous or arterial catheters
7. Moderate (conscious) sedation
8. Cardioversion
9. Ultrasound

VII. Transport Therapist

- A. The role of the transport therapist by land.
- B. The role of the transport therapist by helicopter
- C. The role of the transport therapist by non-pressurized /pressurized airplane

VIII. Hyperbaric Medicine

- A. The role of the hyperbaric Respiratory Therapist and the other team members.

IX. Disease management

- A. The aspects of asthma education, and the role of the asthma educator.
- B. The content outlined by the National Asthma Educator Board for the Certified Asthma Educator (AE-C) exam.
- C. Take the Certified Asthma Educator practice exam.
- D. The aspects of COPD education, and the role of the COPD educator.
- E. The Tobacco Treatment Specialist certification (CTTS) exam.
- F. Education
Present a disease presentation with a disease that is outlined in the *National Board for Respiratory Care Clinical Simulation Examination matrix*.

Grade Scale

A = 93 – 100 %
B = 85 - 92 %
C = 77 - 84 %
D = 68 - 75 %
F = less than 68 %

OR

A = 1116 – 1200
B = 1020 – 1104
C = 924 – 1008
D = 816 – 900
F = less than 816

Course Evaluation

TEST 1	100
TEST 2	100
TEST 3	100
TEST 4	100
TEST 5	100
TEST 6	100
FINAL	250
PRESENTATION	250
ATTENDANCE	50
<u>NOTEBOOK HW</u>	<u>50</u>
TOTAL POINTS:	1200

TEST 1	100		=	_____
TEST 2	100		=	_____
TEST 3	100		=	_____
TEST 4	100		=	_____
TEST 5	100		=	_____
TEST 6	100		=	_____
FINAL	250	_____ X 2.50	=	_____
PRESENTATION	250	_____ X 2.50		
ATTENDANCE	50	_____ X .50	=	_____
NOTEBOOK	50	_____ X .50	=	_____
TOTAL ADD ALL			+	_____
TOTAL POINTS/1200			=	_____ % _____

Course requirements:

1. You must attend class - graded attendance
2. If homework is due at the beginning of the next class, and will be part of the notebook grade
3. No late work will be accepted.
4. Disease presentation
5. Six exams
6. Comprehensive Final

Course Policies

Attendance – If you do not attend class you are missing some very valuable information. Test will include both textbook material and anything mentioned in class. There will be a sign in and sign out sheet for each class. Attendance grade is as follows:

0 classes missed	100
1 class missed	92
2 classes missed	84
3 classes missed	76
4 classes missed	67
5 classes missed	dropped from class

Homework Assignments

Please turn in homework assignments at the start of the next class meeting. **NO LATE WORK ACCEPTED!!!!** If you have an excused absence you may e-mail your work to me before the class starts. If the absence is not excused you will receive a zero.

Absences

According to LIT policy students with approved absences shall be allowed to make up examinations and written assignments without penalty. This privilege does not extend to unapproved absences. The determination of whether an absence is excused or approved is the responsibility of the instructor, except in the case of approved absence for an Institute-sponsored activity. If absences seriously interfere with performance the instructor may recommend to the Department Chair that the student be dropped from the course. You may be asked to present documentation to the instructor as to why the absence was necessary for the next class meeting that you attend, (i.e. doctor excuse, funeral pamphlet, note from child's doctor, etc.).

Make-up Exam

You may make-up an exam only if the absence is excused by the instructor. The make-up exam will be taken on the next class day that you return.

Class Roll

will be taken on the first and fourth class days. If your name is not on the class roster on the fourth class day, you will be asked to leave class until this matter is taken care of.

No eating, no drinking, turn off beepers, turn off cell phones, no texting, no disruptive behavior, and no children allowed in class please!

Disabilities Statement

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office located in the Cecil Beeson Building.

Course Schedule

Week	Topic	Required reading
1	ADULT ACUTE CARE matrix (CRT, RRT)	NBRC Adult Acute Care matrix
2	same	
3	DIAGNOSTICS (CPFT, RPFT) matrix	NBRC Certified and Registered Pulmonary Function Technician Matrices
4	Practice Exam	
5	NEONATAL-PEDIATRICS (NPS) matrix	NBRC Neonatal – Pediatric Specialty matrix
	Practice Exam	
6	SLEEP Disorder Specialist (CRT-SDS, RRT-SDS) matrix	NBRC Sleep Disorder Specialist matrix
	Practice Exam	
7	SLEEP Disorder Specialist (CRT-SDS, RRT-SDS) matrix	NBRC Sleep Disorder Specialist matrix
	Spring break	
8	Practice Exam	
9	MANAGEMENT ASSISTING THE PHYSICIAN	Packet supplied by instructor
10	TRANSPORT THERAPIST	Packet supplied by instructor
11	HYPERBARIC MEDICINE	Egan Chap. 38, Medical Gas Therapy
12	Exam/Disease Management	Certified asthma educator matrix
13	Practice AE-C exam	
14	Disease Presentations	Egan Chap. 49, Patient Education and Health Promotion
15	Disease Presentations	

Lab Schedule

Week	Topic	Required Reading
1	Adult Acute Care practice questions	NBRC Adult Acute Care Practice exam matrix
2	Adult Acute Care practice examination	
3.	Diagnostics – Certified Pulmonary Function Technologist practice questions	NBRC Certified Pulmonary Function Technologist exam matrix
4	Certified Pulmonary Function technologist practice exam	
5	Registered Pulmonary Function Technologist practice questions	NBRC Registered Pulmonary Function Technologist exam matrix
6	Registered Pulmonary Function Technologist practice exam	
7	Spring Break	
8	Neonatal Pediatric Specialist Exam practice questions	NBRC Neonatal Pediatric Specialist exam matrix
9	Neonatal Pediatric Specialty Exam	
10	Sleep Disorder Specialist Exam practice questions	NBRC Sleep Disorder Specialist exam matrix
11	Sleep Disorder Specialist practice exam	
12	Management Assisting the physician	Packet supplied by instructor
13	Transport therapist	Packet supplied by instructor
14	Hyperbaric medicine	Packet supplied by instructor
15	Education	Packet supplied by instructor
16	Final Exam	

Contact Information:

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