



**INSTRUCTOR CONTACT INFORMATION**

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Office Hours: See Starfish

**CREDIT**

1 Semester Credit Hours (0 hours lecture, 3 hours lab)

**MODE OF INSTRUCTION**

Face to Face

**PREREQUISITE/CO-REQUISITE:**

BIOL 2301, BIOL 2101, BIOL 2302, BIOL 2102, MATH 1332, RSPT 1201, RSPT 1213, RSPT 1310, RSPT 1240, RSPT 1325, RSPT 1160, RSPT 2414, RSPT 1311, RSPT 1360, RSPT 1461, RSPT 2325, RSPT 2255, RSPT 2210, RSPT 2361

**COURSE DESCRIPTION**

Emerging and specialty practices in respiratory care.

**COURSE OBJECTIVES**

Upon completion of this course, the student will be able to

- Delineate the respiratory therapists' role in emerging and specialty practices.
- Applies text book learning plans, the theory, concepts and skills that are involved in the use of specialized diagnostic areas and disease management.
- Explains the role of the respiratory therapist in special diagnostic areas.
- Maintains patient confidentiality by practicing regulations, laws and HIPPA standards.
- Works as a team member.
- Demonstrates appropriate written and verbal communication skills by using the correct terminology of the medical profession.

**REQUIRED TEXTBOOK AND MATERIALS**

- Fundamentals of Respiratory Care: by Egan ISBN: 978-0-323-03657-3
- NBRC Matrix Ref: Comprehensive Respiratory Therapy Exam Prep. Guide: 4<sup>th</sup> Ed.

## ATTENDANCE POLICY

- If you do not attend class you are missing some very valuable information. Test will include both textbook material and anything mentioned in class. You are allowed two 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. valid doctor excuse, funeral pamphlet, etc.).
- Class roll will be taken each class day. 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.

## DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process by the specified drop date as listed on the [Academic Calendar](#). If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

## STUDENT EXPECTED TIME REQUIREMENT

For every hour in class (or unit of credit), students should expect to spend at least two to three hours per week studying and completing assignments. For a 3-credit-hour class, students should prepare to allocate approximately six to nine hours per week outside of class in a 16-week session OR approximately twelve to eighteen hours in an 8-week session. Online/Hybrid students should expect to spend at least as much time in this course as in the traditional, face-to-face class.

**COURSE CALENDAR**

| <b>DATE</b> | <b>TOPIC</b>                                                                                    | <b>READINGS<br/>(Due on this Date)</b>              | <b>ASSIGNMENTS<br/>(Due on this Date)</b> |
|-------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------|
| Week 1      | Special exams ( ACCS, CPFT,RPFT,NPS                                                             | NBRC Web site for exam specific Matrix of each exam | Assignments will be given in class        |
| Week 2      | Lab Data                                                                                        | Egan Chapter 17, Chapter 13                         |                                           |
| Week 3      | Analysis of Exhaled Gases. Inhalation of differed Gases                                         | AARC web site                                       |                                           |
| Week 4      | Transport Therapist , Inspiratory Muscle training                                               | AARC website                                        |                                           |
| Week 5      | Exam #1/                                                                                        |                                                     |                                           |
| Week 6      | Assisting physician ( intubation, tracheostomy, chest tube insertion, Thporacentesis            | AARC website                                        |                                           |
| Week 7      | Assisting Physician ( insertion of venour or arterial catheters , Apnea testing , cardioversion | AARC website                                        |                                           |
| Week 8      | Assisting Physician ( overnight puse oximetry and O2 titration with exercise                    | AARC website                                        |                                           |
| Week 9      | Assisting physician ( sleep studies, bronchoscopy                                               | AARC website                                        |                                           |
| Week 10     | Rapid response teams and disaster management. Exam #2                                           | AARC web site                                       |                                           |
| Week 11     | Evidence Based Medicine /Disaster management                                                    | NHBL, AARC, Websites                                |                                           |
| Week 12     | Exam #3                                                                                         |                                                     |                                           |
| Week 13     | Discontinuing ventilator Support                                                                | Egan Chapter 53                                     |                                           |
| Week 14     | Patient Education and Health Promotion                                                          | Egan Chapter 55                                     |                                           |
| Week 15     | Discontinuing ventilator Support                                                                | Egan Chapter 53                                     |                                           |

|         |                                       |                 |  |
|---------|---------------------------------------|-----------------|--|
| Week 16 | Ethics and the end of life<br>Exam #4 | Egan Chapter 58 |  |
|---------|---------------------------------------|-----------------|--|

### **COURSE EVALUATION**

Final grades will be calculated according to the following criteria:

|                          |            |
|--------------------------|------------|
| Exams (4-8 exams)        | 70%        |
| Homework/Quiz/Assignment | 10%        |
| Presentations            | <u>20%</u> |
|                          | 100%       |

### **GRADING SCALE**

A = 90 – 100 %  
 B = 80 - 89 %  
 C = 77 - 79 %  
 D = 68 - 76 %  
 F = less than 67%

LIT does not use +/- grading scales

### **ADDITIONAL COURSE POLICIES/INFORMATION**

#### **Course requirements:**

1. You must attend class
2. No late work will be accepted

#### **Course Policies**

Exam dates and course schedule may be adjusted to facilitate student learning. If you have to miss an exam, you must notify your instructor prior to the test time. Documentation for the missed exam must be provided to the instructor for a opportunity to take the exam. Exam must be taken on the first day of return. You must call and provide documentation for the missed exam, otherwise you will not be allowed to take the exam.

### **Cell Phone Policy for all courses within the Respiratory Care Program classroom and clinical**

#### **In the classroom setting:**

- Cell phones must be silenced or turned off during class time.
- Cell phones will be placed in the appointed cell phone pocket hanger.
- Attendance will be taken from the cell phone hanger with assigned names.
- Any cell phone use in class will result in your dismissal from class.
- If cell phones are used during an exam, you will be dismissed from the Respiratory Care Program.
- Computer usage not relating to course content is prohibited and will result in your dismissal from the Respiratory Care Program.

**In the clinical setting:**

- Cell phone use is prohibited, except for clinical communications.
- Personal cell phone usage within patient care areas will result in dismissal from the Respiratory Care Program.
- Unapproved usage from your clinical instructor in “non -patient” care areas will result in disciplinary action according to the Respiratory Care Handbook.

**Classroom Behavior**

- No eating, no drinking, no disruptive behavior, and no children allowed in class please!
- During exams please put all of your belongings that include electronic devices against a wall in the classroom. If you have an electronic device out, then you will receive a zero on that exam. If you are caught cheating, then this can result in being dismissed from the program. Any calculator usage cannot be from a cell phone type device, (a calculator in which its only function is calculate)- no additional functions

**Course Outline:****I. Adult Critical Care Specialist ( ACCS)**

- A. Qualifications to take the exam.
- B. The content outlined by the National Board of Respiratory Care for the Adult Critical Care Specialist Exam.

**II. CPFT/RPFT**

- A. Qualifications to take the CPFT/RPFT exam.
- B. The content outlined by the National Board of Respiratory Care for the Certified Pulmonary Function Technician (CPFT) and RPFT exam

**III. Neonatal Pediatric Specialist (NPS)**

- A. Qualifications to take the NPS exam.
- B. The content outlined by the national Board of Respiratory Care for the Neonatal Pediatric Specialist exam.

**IV. Sleep Disorder Specialist ( SDS)**

- C. Qualifications to take the SDS exam.
- D. The content outlined by the national Board of Respiratory Care for the Neonatal Pediatric Specialist exam.

**V. Asthma Education Specialist ( AE-C)**

- E. Qualifications to take the AE-C exam.
- F. The content outlined by the national Board of Respiratory Care for the Neonatal Pediatric Specialist exam.

**VI. Cardiopulmonary Emergencies (excluding CPR)**

- A. MET Team (Rapid Response)

**VII. 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.

**VIII. Disaster Management**

- A. Preparation**
- B. Training**
- C. Execution**

**IX. Assisting in additional tasks and assisting the physician**

- A. Discuss the role acting as the assistant to the physician for the following procedures
- B. Recommend, Perform Procedures to gather additional Information and evaluate procedure results. Modifications to respiratory Care Plan
  - 1. Intubation
  - 2. Bronchoscopy ( Diagnostic and Therapeutic), Broncho alveolar lavage, ENB
  - 3. Thoracentesis
  - 4. Tracheostomy
  - 5. Chest Tube Insertion
  - 6. Insertion of venous or arterial catheters
  - 7. Moderate (conscious) sedation
  - 8. Cardioversion
  - 9. Withdrawal of life support
  - 10. Apnea Test
  - 11. Inspiratory Muscle Training
  - 12. Apnea Monitoring
  - 13. Overnight Pulse Oximetry
  - 14. O2 titration with exercise
  - 15. Sleep studies
  - 16. Analysis of exhaled gases. ( Co<sub>2</sub>,Co and FENO)
  - 17. Analysis of radiographs to access line positions ( ETT-Trach-CVP-Swanz Ganz, IABP, gastric tube,

**X. Transport**

- A. The role of the transport therapist by land.
- B. The role of the transport therapist by air ( pressurized and non- pressurized.
- C. The role of the transport therapist within the hospital

**XI. Hyperbaric Medicine**

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

**XII. Utilizing evidence based Medicine in Practice**

- A. ARDS net

- B. NAEEP
- C. GOLD
- XIII. Conduct Education ( Disease condition and management)**
  - B. Homecare and related equipment
  - C. Life style change ( smoking cessation, exercise)
  - D. Pulmonary Rehabilitation
  - E. Asthma
  - F. COPD
  - G. CF
  - H. Ventilator dependency
  - I. Trach Care
- XIV. Recommend additional data to gather information and evaluate results**
  - A. CBC
  - B. Culture and Sensitivity
  - C. BUN and Creatine
  - D. Clotting studies
  - E. Sweat Chloride
  - F. BNP
  - G. Lactic
  - H. Body Fluid Analysis
  - I. Cardiac Markers (Troponin, CPK, CMB)

### **ACADEMIC DISHONESTY**

Students found to be committing academic dishonesty (cheating, plagiarism, or collusion) may receive disciplinary action. Students need to familiarize themselves with the institution's Academic Dishonesty Policy available in the Student Catalog & Handbook at <http://catalog.lit.edu/content.php?catoid=3&navoid=80#academic-dishonesty>.

### **TECHNICAL REQUIREMENTS**

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or WIFI is necessary to maximize the use of online technology and resources.

### **DISABILITIES STATEMENT**

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of

Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email [specialpopulations@lit.edu](mailto:specialpopulations@lit.edu). You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](#).

### **STUDENT CODE OF CONDUCT STATEMENT**

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at [www.lit.edu](http://www.lit.edu). Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

### **STARFISH**

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.