



**LAMAR INSTITUTE  
OF TECHNOLOGY**

## Introduction to Respiratory Care RSPT 1201

### **INSTRUCTOR CONTACT INFORMATION**

Instructor: Stacy Taylor  
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Office Location: Gateway Room 106  
Office Hours: Posted on door

### **CREDIT**

2 Semester Credit Hours (1 hours lecture, 4 hours lab)

### **MODE OF INSTRUCTION**

Face to Face

### **PREREQUISITE/CO-REQUISITE:**

Pre-requisites-BIOL 2301, BIOL 2101, BIOL 2302, BIOL 2102, MATH 1332

Co-requisites- RSPT 1213

### **COURSE DESCRIPTION**

An introduction to the field of respiratory care.

### **COURSE OBJECTIVES**

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

The student will be able to :

1. Discuss/identify the history and future of the Respiratory Care Profession
2. Outline/identify the organization and function of hospital departments
3. Describe/ identify issues related to ethics, legal and medical malpractice.
4. Describe/ identify/ perform and interpret basic vital signs and cardiopulmonary assessment
5. Describe/identify/perform proper body mechanics
6. Describe/identify/ perform infection control techniques and management of patients with transmittable disease.

### **Course Outline**

- A. The Respiratory Care Profession

1. History of Respiratory Care
  2. Professional organization
    - a. American Association for Respiratory Care
    - b. NBRC- National Board for Respiratory Care
    - c. State organizations
  3. Respiratory Care Education
  4. Associate and Bachelor programs
  5. Accrediting Agency
  6. Requirements for NBRC eligibility
  7. Future of Respiratory Care
  8. Jobs
  9. Specialty exams
  10. License
  11. Quality and Evidence Based Respiratory Care
- B. Hospital organization
1. Types of facilities
  2. Internal organization
- C. Ethics/ Legal
1. AARC Code of Ethics
  2. Ethical theories and Principles
    - a. Autonomy
    - b. Veracity
    - c. Nonmaleficence
    - d. Beneficence
    - e. Confidentiality
    - f. Justice
    - g. Role duty
    - h. Formalism
    - i. Consequentialism
    - j. Mixed approaches
    - k. Virtue ethics
    - l. Intuitionism
    - m. Decision making models
    - n. Systems of law
    - o. Health insurance Portability Protection Act
    - p. Negligence
    - q. Advanced directives
    - r. DNR status ( in hospital and out of hospital)
    - s. Medical supervision
    - t. Scope of practice
    - u. Malpractice
- D. Communication
1. Professional
  2. Verbal
  3. Non-verbal
  4. Factors affecting

5. communication
6. Ways to improve

D. Patient safety/ Body mechanics

1. Movement and Ambulation
2. Electrical safety
3. Fire Hazards

E. Cardiopulmonary assessment

1. Patient Interview
2. Common cardiopulmonary signs and Symptoms
  - a. Dysnea
  - b. Cough
  - c. Sputum production
  - d. Hemoptysis
  - e. Chest Pain
    1. Pleuritic
    2. Non-Pleuritic
  - f. Temperature- core
    1. Hyperthermia
    2. Hypothermia
  - g. Pedal edema
  - h. Clubbing
  - i. Accessory muscle use
3. Physical
  - a. General appearance
  - b. Level of Consciousness
  - c. Vital Signs
    1. Pulse
      - a. rate
      - b. rhythm
      - c. terminology-tachycardia,bradycardia
    2. Blood Pressure
      - a. Hypertension
      - b. Hypotension
    3. Respiratory rate
      - a. Bradypnea
      - b. Tachypnea
      - c. Eupnea
    - d. Capillary refill
    - e. Peripheral skin temperature
  4. Four Parts of the Exam
    - a. Inspection
      1. Cyanosis
      2. JVD
      3. Thoracic Configurations
        - a. AP diameter

- b. Pectus Carinatum
      - c. Pectus Excavatum
      - d. Scolosis
      - e. Kyphosis
      - f. Kyphyoscoliosis
    - 4. Breathing Patterns
      - a. Apnea
      - b. Biots
      - c. Cheyne-Stokes
      - d. Kussmauls
      - e. Paradoxical
  - b. Palpation
    - 1. Vocal Fremitus
    - 2. Thoracic expansion
    - 3. Skin and Subcutaneous tissue
  - c. Percussion
    - 1. Normal resonance
    - 2. Hyperresonance
    - 3. Hyporessonance
  - d. Auscultation
    - 1. The stephoscope
    - 2. Technique
    - 3. Normal sounds
      - a. Vesicular
      - b. Bronchovesicular
      - c. Tracheal
    - 4. Adventitious Sounds
      - a. Wheezing
      - b. Rales
      - c. Stridor
      - d. Pleural friction rub
  - e. Abdominal examination
    - 1. Quadrants
    - 2. Tenderness
- F. Infection control
  - 1. Hand hygiene
    - a. Importance
    - b. Soaps vs. alcohol based products
    - c. Technique
  - 2. Personal Protective equipment
    - a. Gloves
    - b. Respiratory Protection
    - c. Gowns
    - d. Isolation
    - e. Technique

## REQUIRED TEXTBOOK AND MATERIALS

1. Egan's Fundamentals of Respiratory Care 13<sup>th</sup> Edition ISBN 978-0-323-93199-1
2. Egan's Fundamentals of Respiratory Care Workbook 13<sup>th</sup> Edition ISBN 978-0-323-93200-4
3. Pack of Scantrons
4. Trajecsyst access (information will be given on first class day to obtain access)
5. One Vision

## ATTENDANCE POLICY

### Attendance/Class policy:

It is the student's responsibility to familiarize his or herself with the LIT Student Handbook and the Respiratory Care program student handbook.

Violation of the policies listed in the LIT Student Handbook and/or the Respiratory Care program student handbook will result in appropriate action being taken.

**Attendance:** Attendance is expected. Students are allowed 2 absences per semester, with or without a Dr.'s excuse. Each absence in excess of the 2 allotted absences will result in a 10% reduction, per absence, in the student's final class grade. Example: 3 absences = 10% reduction in final class grade, 4 absences = 20% reduction in final class grade, etc. Deductions as a result of excessive absences, will be applied to the student's final class grade at the end of the semester.

Your attendance is the biggest predictor of your success. If you do not attend class, you are missing very valuable information. Attendance will be recorded both in the classroom and in the lab. Absences in lab will result in a grade of 0 for that lab day. Tests will include both textbook material and material presented in class.

If absences seriously interfere with performance, the instructor may recommend, to the Department Chair, that the student be dropped from the course.

Absences resulting from extenuating circumstances will be evaluated by the program Director and/or Director of Clinical Education on a case by case basis. Proper documentation will be required to demonstrate the nature of the extenuating circumstance.

Examples of extenuating circumstances, and documentation, include:

-Hospitalization of an immediate family member (Hospital/Physician documentation must be provided)

-Death of an immediate family member (Memorial Pamphlet must be provided)

**Tardiness:** Punctuality is expected. 3 tardies in a semester will be considered as a 1 day absence.

**You must notify the instructor via phone call, prior to missing an exam.** Failure to notify instructor of an absence prior to the start of the exam will result a grade of 0 will be assigned for the missed exam. There will be no makeup exams or lab assignments if you fail to notify the instructor prior to a missed exam.

**Make-Up Exams:** Make up exams will be taken the first class day that the student returns following an absence. Make-up exams will be administered immediately at the beginning of the class on the day of return.

**Homework Assignments:** Homework assignments will be due immediately at the start of class. Late work (work turned in after the start of class) will not be accepted. If you are absent on the day a homework assignment is due, it is your responsibility to ensure that

your work is emailed to the instructor prior to the start of class on the day of your absence.

**Pop Quizzes:** Pop Quizzes will be administered at the start of class. Any student who arrives tardy to class, after the Pop Quiz has been distributed, will receive a 0 grade for that pop quiz.

### 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

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS Lab
1	History of RC/ Future of RC	Chapter 1- Egan	AARC video, Web sites – AARC, NBRC,TSRC. Dealing with death and dying, Non-verbal Communication and Culture, Cross Cultural Communication: How Culture Affects Communication.
2	Hospital organization/ Profession of RC	Chapter 2- Egan	Moving and turning, Transfer and ambulation( DVD)
3	Communication	Chapter 3- Egan	Infection Control Skills (DVD)- and practice, Isolation procedures (DVD) and practice
4	Patient Safety	Chapter 3- Egan	HIPPA video, Age-Specific Care- Isolation procedures practice

5	Recordkeeping Infection Control and Exam #1- Chapter 1 and 2 workbook due)	Chapter 4 – Egan	Measuring Vital signs( DVD) and practice
6	Ethical and Legal	Chapter 5- Egan	Chest assessment video and practice
7	Exam #2 – Chapter 3 and 4 workbook due. Heart rate, respiratory rate, blood pressure	Chapter 16- Egan	Practice all competencies to prepare for check offs.
8	Patient assessment- Inspection, Palpation	Chapter 16- Egan	Competency check offs--- Hand washing, isolation procedures
9	Patient assessment- Percussion, Auscultation	Chapter 16- Egan	Competency check offs- vital signs- heart rate, respiratory rate, blood pressure
10	Exam #3- Chapter 4 workbook due.	Chapter 16- Egan	Continue practice
11	Exam #4- Comprehensive		Competency practice - chest assessment
12	Hospital orientation		

### COURSE EVALUATION

Final grades will be calculated according to the following criteria:

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- Exams 4-5 85%
- Lab/Quiz/Homework 15%
- Homework assignments will be given in class
- Demonstrate competencies in handwashing, isolation techniques, vital signs (heart rate, respiratory rate, and blood pressure)
- Sign and submit the “Statement of Understanding”, House Bill, etc.

### GRADING SCALE

90 – 100	A
80 – 89	B
77 – 79	C
68 – 76	D
0 – 67	F

LIT does not use +/- grading scales

## **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.

**ADDITIONAL COURSE POLICIES/INFORMATION**

1. No food or drink, or use of tobacco products in class
2. Beepers, telephones, headphones, and other electronic devices must be placed in the hanging container. All notebooks, backpacks, purses (etc) will be placed at the front of the classroom during exams.
3. No children allowed in the classroom- per LIT policy
4. No late assignments will be accepted
5. Abide by LIT policies
6. Abide by policies within the Respiratory Care Handbook
7. Abide by instructor specific policies; this will be distributed on the first class day.
8. Exam dates will be distributed the first class day.
9. All students must adhere to LIT policy regarding Infection Control.
10. Cell phones cannot be used as a calculator during exams.