



**LAMAR INSTITUTE
OF TECHNOLOGY**

Introduction to Respiratory Care RSPT 1201

INSTRUCTOR CONTACT INFORMATION

Instructor: Cynthia McKinley
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Office Location: Gateway Room 107
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. Egans Fundamentals of Respiratory Care 12th Edition (ISBN # 978-0323811217)
2. Egans Fundamentals of Respiratory Care 12th Edition Workbook (ISBN# 978-0323553667)
3. Trajecsys access (information will be given on first class day to obtain access)

ATTENDANCE POLICY

Be familiar with the LIT student handbook and the Respiratory Care student handbook. Violation of policies will result in appropriate action being taken.

Attendance: Attendance is expected. If you do not attend class you are missing some very valuable information. Test will include both textbook material and anything mentioned in class. According to LIT policy, if absences seriously interfere with performance the instructor may recommend to the Department Chair that the student be dropped from the course. Attendance is taken in both classroom and lab. You will be dropped from the course for absences above 3/semester. (includes both classroom and lab). Absences in lab will result in a 0.

Tardiness: Punctuality is expected. 3 tardies in a semester will be considered an absence.

Homework assignments are expected to be turned at the start of the day it is due. (no late work accepted)

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.

Excused absence:

Things that may be considered excused absences:

Doctor visits with a written excuse from a doctor/ hospital.

Death of immediate family member. Provide memorial pamphlet

Summons for court appearance. Provide court ordered appearance papers.

You must call prior to missing an exam. Calling prior to the missed exam does not automatically excuse you from missing an exam. If you fail to call or fail to present requested documentation upon the first class day return this will be considered an unexcused absence. Make up exams for excused absences must be taken on the first class day return. There will be no makeup exam or lab assignment for unexcused absences.

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.

Please turn off all beepers, phones or other noise makers while in class

According to LIT policy, no children will be allowed in the classroom.

Electronic communication will be sent thru your LIT email account. You are responsible for checking this account.

RESPECT OTHERS. If you are disrespectful or rude you will be asked to leave class.

Class participation is encouraged. Ask questions if you do not understand!!!

Extra Credit will not be offered.

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 |

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|----|--|------------------|--|
| 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 | | |
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COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- Final grades will be calculated according to the following criteria:
- 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. 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. 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.