



## **Clinical/Respiratory Care (RSPT 2361)**

**Credit:** 3 semester credits (18 hours clinic/lab)

**Prerequisite:** RSPT 1329, RSPT 1207, RSPT 2310, RSPT 1113, RSPT 1325, RSPT 1331, RSPT 1335, RSPT 2353, RSPT 1360, RSPT 1461

**Co-requisite:** RSPT 2414, RSPT 1141, RSPT 2255

### **Course Description**

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

### **Required Textbook and Materials**

1. Scrubs
2. Lab Coat
3. Watch with second hand
4. Goggles- *description of type will be given in class*
5. Scissors- *description of type will be given in class*
6. Stethoscope
7. Black pens
8. Calculator
9. Name badge
10. LIT Allied Health Patch
11. Tokens for modules- [www.ketteringseminars.com](http://www.ketteringseminars.com)
12. DataArc<sup>®</sup> access
13. Current Healthcare Provider Certification- CPR
14. Daily clinical notebook
15. Dana Oaks pocket guide for Respiratory Care ( ISBN # 0-932887-00-7)
16. NRP and Pediatric Advanced Life support course fees
17. NRP and PALS Provider Manual 15-1058 (includes PALS Pocket Reference Card).
18. Optional – Trip to Cadaver Lab – San Antonio, Texas
19. Participation in LIT/Lamar Simulation.

### **Course Objectives**

Upon completion of the course, the student will be able to: As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.

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1. Applies text book learning plans, the theory, concepts and skills that are involved with the use of specialized materials and tools.
2. Explains while demonstrating equipment procedures
3. Maintains patient confidentiality by practicing regulations, laws and HIPPA standards
4. Concentrates on safety practices through information from the chart and patient history by using the necessary precautions on ALL patients
5. Works as a team member
6. Demonstrates appropriate written and verbal communication skills by using the correct terminology of the medical profession,
7. Perform and demonstrate competency of the following procedures: Peak Flow, Inline suctioning (pediatric or neonatal), HME, Inline MDI (pediatric or neonatal), Inline Small volume Nebulizer (adult, pediatric or neonatal), weaning parameters, Manuel ventilation during transport, Arterial Blood gas sampling, Arterial blood gas analysis, ABG quality assurance, Arterial line sampling, Cuff management

**Course Outline**

Competencies required for completion of this course.

- A. Peak Flow
  1. Equipment and patient preparation
  2. Implementation of Procedure
  3. Evaluate and monitor patient response
  4. Follow up to implementation, evaluation and monitoring.
  5. Cognitive knowledge of procedure ( indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
  6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.
- B. Inline Suctioning( pediatric or neonatal)
  1. Equipment and patient preparation
  2. Implementation of Procedure
  3. Evaluate and monitor patient response
  4. Follow up to implementation, evaluation and monitoring.
  5. Cognitive knowledge of procedure ( indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
  6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

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- C. HME (heat moisture exchanger)
  - 1. Equipment and patient preparation
  - 2. Implementation of Procedure
  - 3. Evaluate and monitor patient response
  - 4. Follow up to implementation, evaluation and monitoring.
  - 5. Cognitive knowledge of procedure ( indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
  - 6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.
- D. Inline MDI ( Pediatric or neonatal)
  - 1. Equipment and patient preparation
  - 2. Implementation of Procedure
  - 3. Evaluate and monitor patient response
  - 4. Follow up to implementation, evaluation and monitoring.
  - 5. Cognitive knowledge of procedure ( indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
  - 6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.
- E. Inline small volume Nebulizer – adult , ( pediatric or neonatal)
  - 1. Equipment and patient preparation
  - 2. Implementation of Procedure
  - 3. Evaluate and monitor patient response
  - 4. Follow up to implementation, evaluation and monitoring.
  - 5. Cognitive knowledge of procedure ( indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
  - 6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.
- F. Weaning Parameters
  - 1. Equipment and patient preparation
  - 2. Implementation of Procedure
  - 3. Evaluate and monitor patient response
  - 4. Follow up to implementation, evaluation and monitoring.
  - 5. Cognitive knowledge of procedure ( indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
  - 6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

G. Manuel ventilation during transport

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure ( indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

H. Arterial Blood Gas Sampling

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure ( indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

I. Arterial Blood Gas Analysis

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure ( indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

J. Arterial Line Sampling

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure ( indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

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**K. Cuff Management**

1. Equipment and patient preparation
2. Implementation of Procedure
3. Evaluate and monitor patient response
4. Follow up to implementation, evaluation and monitoring.
5. Cognitive knowledge of procedure ( indications, contraindications, equipment, troubleshooting, evaluating patient response, expected outcomes)
6. Satisfactory perform procedure. (Perform procedure accurately or be able to correct performance without injury to patient or decreasing effect of therapy given.

**Grade Scale**

A	=	90 - 100
B	=	80 - 89
C	=	70 - 79
D	=	60 - 69
F	=	less than 60

**Course Evaluation**

Daily ( weekly) clinical grade:	25%
Modules:	5%
Final Exam:	35%
Physician contact:	5%
Affective Evaluation	20%
Post Conference	10%

Student must demonstrate competency in all procedures of the course outline.  
Student will receive an 'F' in the course if competency is not obtained.

**Course requirements**

- A. Successful Competency in all procedures listed in the Course Outline.
- B. Modules: ([www.ketteringseminars.com](http://www.ketteringseminars.com)) 5% of the grade is an average of module scores. If modules are not completed a "I" incomplete will be given in this course.
  1. Mechanical Ventilation A
  2. Mechanical Ventilation B
  3. Mechanical Ventilation C
  4. Mechanical Ventilation D
  5. Mechanical Ventilation E
- C. Completion of two affective evaluations. If student receives a score of less than 3 , the RC handbook will be followed with appropriate sanction. Student must show improvement in the deficient area in order to continue in the RC Program. Students who fail to meet minimum standards by the end of the semester will be dropped from the course/Respiratory Care Program.
- D. Completion of Pediatric Advanced Life Support Course with Certification received.

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- E. 20 Physician Contact points minimum.
- E. Final Exam-Comprehensive

**Course Policies**

1. Comply with policies and procedures outlined in the Respiratory Care Handbook.
2. Three absences are allowed in this clinical course (two – 8 hour days and one- 2 hour day).
3. Absences beyond those stated in #2 must be made up at the end of the semester and will result in overall clinical grade will be reduced by a letter grade for each excessive absence. Therefore a total of four ( 8 hour absences) and 2 (2 hour absences) automatically result in course failure
4. Tardiness: Punctuality is expected. 3 tardies in a semester will be considered an absence.
5. If you utilize your allowed absence days at the end semester. You must have all your coursework completed and submitted prior to utilization of these absence days.
6. Physician lectures are considered part of your clinical day. You are required to attend these lectures. If you do not, you will be considered absent for that day of clinic. Unless you are in attendance in a specialty rotation during the time period of the lectures.

As Outlined in the Respiratory Care Handbook.

*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 (whether approved or not) with performance the instructor may recommend to the Department Chair that the student be dropped from the course.*

*Students are to follow the absenteeism policy for each course as defined in the course syllabi.*

*If the policy is not followed the student may enter into a Level I or II offense as defined in the Code of Conduct and Disciplinary Policy. All approved excessive absences within the clinical setting will be made up. The date and time for makeup will be arranged by the Director of Clinical Education. It is the student's responsibility to notify and provide documentation to the Director of Clinical Education for each absence over the number allowed.*

**Technical Requirements (for courses using Blackboard)**

The latest technical requirements, including hardware, compatible browsers, operating systems, software, Java, etc. can be found online at:

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[https://help.blackboard.com/en-us/Learn/9.1\\_2014\\_04/Student/015\\_Browser\\_Support/015\\_Browser\\_Support\\_Policy](https://help.blackboard.com/en-us/Learn/9.1_2014_04/Student/015_Browser_Support/015_Browser_Support_Policy) A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of the online technology and resources.

### **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 in Student Services, Cecil Beeson Building. You may also visit the online resource at <http://www.lit.edu/depts/stuserv/special/defaults.aspx>

### **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) or obtained in print upon request at the Student Services Office. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document

### **Course Schedule**

This course requires 18 hours per week in the assigned clinical facility. Daily assignments are distributed by the clinical instructor.

### **Contact Information**

Instructor:

Stacy Taylor, RRT

Office: Multipurpose Center, office #238

Telephone: 409-880-8854

E-mail: [sltaylor@lit.edu](mailto:sltaylor@lit.edu)

Office hours: Posted outside office. Additional times available with appointment.  
Available for remediation or tutoring.