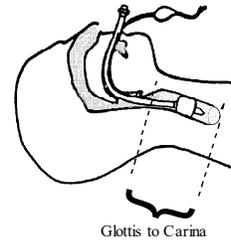
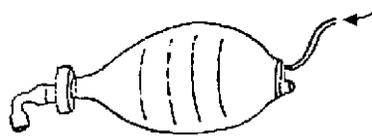


JACKSON COLLEGE  
RESPIRATORY CARE PROGRAM



**RES 110**  
**RESPIRATORY CARE TECHNIQUES II**



**LECTURE SYLLABUS**  
**SPRING SEMESTER 2017**

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# Outline of Instruction

<b>Division:</b>	Health Sciences	<b>Area:</b>	Respiratory Care
<b>Course Number:</b>	RES 110	<b>Course Name:</b>	Respiratory Care Techniques II
<b>Prerequisite:</b>	RES 100: Respiratory Care Techniques I RES 104 Cardiopulmonary Assessment I		
<b>Credits:</b>	5		

## Course Description/Purpose

This classroom and laboratory course continues the introduction to basic duties of respiratory care practitioners. Emphasis will be placed on patient assessment, basic therapy modalities, airway management, cardiopulmonary diagnostic equipment and techniques, and an introduction to continuous mechanical ventilation.

## Major Units

1. Bedside Assessment and Incentive Spirometry
2. CPT, Medication Aerosols, and Bag-Valve-Mask Devices
3. Artificial Airways and Airway Maintenance
4. Intubation/Extubation and ABG Sampling / Processing
5. Basic Pulmonary Function Testing
6. Electrocardiology

## Laboratory Assignments:

1. Patient Assessment I
2. Patient Assessment II
3. Patient Assessment III, IPPB, and Incentive Spirometry
4. Medical Aerosols
5. Chest Physiotherapy and Alternatives
6. Artificial Airways and Suctioning
7. MVB Devices and ETT Management
8. Radial Artery Blood Sampling, Pulse Oximetry and Extubation
9. PFTs via Waterseal Spirometry
10. Electrocardiograms

## Educational/Course Outcomes

The course goals and objectives incorporate specific General Education Outcomes (GEOs) established by the JC Board of Trustees, administration, and faculty. These goals are in concert with four-year colleges, universities, and reflect input from the professional communities we serve. GEOs guarantee students achieve goals necessary for graduation credit, transferability, and professional skills needed in many certification programs. The GEOs and course objectives addressed in this class include the following:

**Performance** Each student will be expected to:

- o Demonstrate delivery of aerosolized medications using medication nebulizers (SVNs and MDIs) and airway care including suctioning and airway maintenance. **ADO7**

**Academic Honesty Policy:** If there is any suspicion of academic dishonesty, JC's Academic Honesty Policy will be followed and appropriate action will be taken, up to and including assigning a **failing grade** for the paper, project, report, exam, or the course itself (whichever is deemed necessary). To see the policy, visit: <https://www.jcmmi.edu/wp-content/uploads/StudentCodeOfConduct.pdf>.

**Incompletes Policy:** (Excerpt from JC Policy) "A student may request an incomplete from the instructor. The incomplete will be granted only if the student can provide documentation that his or her work up to that point is sufficient in quality, but lacking in quantity, due to circumstances beyond the student's control. Furthermore, a written plan for making up the missing work within one semester must be completed by the student. Final determination of whether an incomplete will be given is the instructor's decision."

**Class Conduct:** Please recognize that all students have an equal right to a quality classroom experience. Behavior that would adversely affect the rights of another student (i.e. side conversations, disruptive actions, etc.) will result in those responsible being asked to leave for the remainder of the period and losing credit for any work that is missed.

**Classroom expectations:** There are three expectations that will be enforced in the classroom:

1. First, attendance is very important to successfully learn and retain lecture information. Therefore attendance in class all day, every day is expected and encouraged. According to the **JC Respiratory Care Program Student Handbook**, student responsibilities include “taking an active role in the learning process”, and one cannot do this if you are not there and participating in discussion and class activities. The student will be responsible for contacting the instructor to obtain any make up material needed as a result of the absence. In order to facilitate preparation of such materials, the student will probably best contact the instructor as much in advance as possible via email or phone prior to class time if there is any expected absence or any makeup material needed. Then the student will need to contact the instructor after the absence to obtain any missing materials. As for notes or other content covered during class, it is the student's responsibility to gather such material, so going to the instructor and asking for any handouts or materials is the student's responsibility. Also, having a fellow student from whom the student can get such notes is vital in the event of an absence.
2. In addition, the **JC Respiratory Care Program Student Handbook** will be followed closely pertaining to classroom behavior. As stated in the Handbook, “Responsibilities borne by the student in maintaining an optimal learning environment include treating other students, instructors, respiratory therapists, and co-workers (e.g. nurses) with the respect afforded to fellow health care professionals.” Mutual respect between the instructor and all students is expected at all times. Disrespect and other disruptive behaviors which inhibit the teaching and learning to which the entire class is entitled will not be tolerated. Any incidents will be handled in keeping with the disciplinary policy spelled out beginning on p. 16 of the **JC Respiratory Care Program Student Handbook**, and appropriate action taken up to and including **class expulsion**.
3. Thirdly, assignments or take home quizzes are expected to be handed in on the appropriate due date (which shall be **one week** from when they are given out in class). They may be handed in any time on the due date up to 4 pm with no penalty. In general, assignments that are late will be subject to a late penalty (5 pts/day deducted from the final grade for that assignment, for up to 8 days late to give a maximum of -40 pts for turn-ins late by one week; assignments turned in later than 8 days will lose an additional 10 pts/week).

**Getting Extra Help:** (Besides visiting me during office hours)

It can be very frustrating when you do not understand concepts and are unable to complete homework assignments. However, there are many resources available to help you with your study of respiratory care.

- **CENTER FOR STUDENT SUCCESS:** Tutors (plus additional services for academic success) can be accessed by calling **796-8415** or by stopping by the **Center for Student Success Bert Walker Hall, Room 138**. Arrange to get regular assistance from a tutor. Students requiring special assistance (including those affected by the Americans with Disabilities Act) should contact the Center for Student Success. This is the first step in acquiring the appropriate accommodations to facilitate your learning.
- **STUDY GROUP:** Find a study partner or a study group. Sometimes it helps to work through problems with another person.
- **JETNET:** There will be material posted there to help students and allow them to ask questions of the instructor and/or the group.
- **EMAIL:** The best and quickest way to get a hold of me, besides attending class, of course.

**All lectures cancelled, regardless of reason, will be made up at a later time to be determined by course instructor.**

**“Jane’s Study Plan”** (with permission): A student who was very successful in the nursing program offered to share what she did to be so successful.

- Read material before class.
- Take good notes in class.
- Go home after class and re-read your text. Fill in your notes further with information from your text. Jot down any study tips or reminders.
- Write out (again!) every piece of information you need to study and quiz yourself. Have questions on one half of your paper (or on one side of an index card) and answers on the other.
- Spend at least **two hours** of study time for each hour spent in class. (**Six hours** of study per week for a 3-credit class).
- Take advantage of looking carefully at and learning from mistakes on tests after they are handed back.

## WEEKLY SCHEDULE

Lecture	Office hours	Lab
Mon. 2:00 to 7:00 pm	Mon 7 to 8pm <i>additional by appt</i>	Wed. 9:30 am to 1:15 pm
Wed. 1:45pm to 3 pm	Tues. 11 to 4pm	3:15 to 7:00 pm

**REFERENCE MATERIAL:** **Textbook Zero:** All texts are available in digital format from the book store / many online sources.

**Required Texts:**

1. Egan's Fundamentals of Resp. Care, **11<sup>th</sup> ed.**, Kacmarek et. al., Elsevier, **2017**, ISBN **978-0-3233-4136-3**. (**Egan**).
2. Equipment for Respiratory Care, 1<sup>st</sup> ed., Volsko, et al., Jones and Bartlett, 2016, ISBN 978-1-4496-5283-8. (**Equip**).
3. Respiratory Care: Patient Assessment and Care Plan Development, 1<sup>st</sup> ed., Shelledy and Peters, Jones and Bartlett, 2016, ISBN 978-1-4496-7244-7. (**Shelledy**).
4. Clinical Manifestations and Assessment of Respiratory Disease, **7<sup>th</sup> ed.**, Des Jardins, Elsevier, **2015**, ISBN **978-0-3232-4479-4**. (**Des Jardins**).
5. Lecture syllabus, unit outline, class handouts and supplement booklet.

**Optional Texts:**

1. The Essentials of Respiratory Therapy, 4<sup>th</sup> ed., Kacmarek, et. al., Elsevier, 2005, ISBN 978-0-3230-2700-7. (**Kacmarek**).
2. Rau's Respiratory Care Pharmacology, **9<sup>th</sup> ed.**, Gardenhire, Elsevier, **2016**, ISBN **978-0-3232-9968-8**. (**Rau**).

**NOTE:** (**Bold Name**) represents how this text will be referred to when cited in unit outlines.

**EVALUATION**

**If an accommodation is needed** due to a documented disability—physical, learning, or otherwise—contact the **Center for Student Success** in **Bert Walker Hall, Room 138** (796-8415). Accommodations may be provided depending on the disability.

**Course points** are derived from unit exams, quizzes and assignments, a lab score, and a comprehensive final exam. Most testable material for unit and final exams is listed in unit objectives, but can also be based on relevant material from other classes in this term, and may include additional material as covered in class outlines and lecture. Additional quizzes, assignments, case studies or exams may be assigned in addition to those scheduled.

The system for evaluation will consist of:

Exams:	70%
Quizzes:	10%
Lab:	10%
Final:	10%

**A no show/no call for any scheduled or announced exam/quiz may result in a test grade of zero.** Notification of a desire to schedule a make-up test is to be received prior to the time of the original exam in order to be routinely eligible for a makeup exam. **If taken the same day as decided by the instructor, there is no penalty, as long as there has been prior notice given.** This must be arranged with the instructor in advance. I may be notified directly by phone or via voice-mail message at (616) 446-3856. **By course policy, all first make-up exams lose 8 points from the final grade, a subsequent make-up exam loses 16 points, and a third requested make-up loses 24 points.**

Failure to maintain up to date **health records and CPR certification** will result in a **weekly 5 point deduction from the final grade until records are in compliance.**

**Cell phones** are to be set so as not to disrupt normal classroom communications; i.e., no cell phone ringing should be detectable to faculty or students. **For each incidence of detectable cell phone activation, 5 points will be deducted from the student's final total points earned.** You may excuse yourself if an urgent call is expected or you feel that it needs to be taken immediately, but your phone should be set on vibrate or with the ringer lowered in such an extreme case. Please do not abuse this privilege.

**Computerized RT Quizzes:**

1. ABG: Acid-Base Evaluation - 100% score required.
2. ABG: PaO<sub>2</sub> Evaluation (Oxygenation) - 100% score required.
3. Pulmonary Physiology Math - 100% score required for all but  $\dot{Q}_S/\dot{Q}_T$  and C.O. calculations (these are extra credit).

ALL RT computer testing is mastery testing. A student may repeat a test as many times as needed until the student achieves a desired score.

**GRADING**

To pass RES 110 the final course average score must be  $\geq 76\%$ .

**Grading Scale for All Respiratory Care Courses:**

4.0 = 93 - 100	2.5 = 80 - 83	1.0 = 68 - 72
3.5 = 89 - 92	2.0 = 76 - 79	0.5 = 64 - 67
3.0 = 84 - 88	1.5 = 73 - 75	0.0 = Below 64