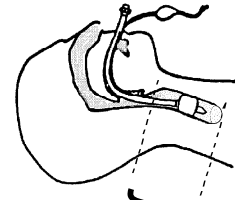
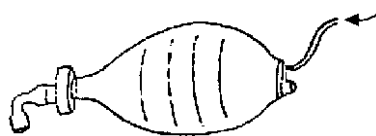


JACKSON COLLEGE
RESPIRATORY CARE PROGRAM



Glottis to Canna

RES 110
RESPIRATORY CARE TECHNIQUES II



LECTURE SYLLABUS
SPRING SEMESTER 2016

INSTRUCTOR:	Helen Grim, MS, RRT
OFFICE:	JW 245
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EMAIL:	grimhelen@jccmi.edu

Outline of Instruction

Division:	Allied Health	Area:	Respiratory Care
Course Number:	RES 110	Course Name:	Respiratory Care Techniques II
Prerequisite:	RES 100: Respiratory Care Techniques I RES 104 Cardiopulmonary Assessment I		
Credits:	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 Associate Degree Outcomes (ADOs) 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. ADOs guarantee students achieve goals necessary for graduation credit, transferability, and professional skills needed in many certification programs. The ADOs 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. **ADO 7**

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: <http://www.JCmi.edu/policies/Academics/Policies/1004.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 Student Rights and Responsibilities Handbook** will be followed closely pertaining to classroom behavior. As stated in the Handbook, "Freedom to teach and learn are basic concepts of education. The rights of students are defined in order to foster an atmosphere of learning, to provide an opportunity for all students to achieve their educational goals....." 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. 25 of the JC Student Rights and Responsibilities Handbook, and appropriate action taken up to and including **class expulsion**. To review the **JC Student Rights and Responsibilities Handbook**, visit: http://www.JCmi.edu/studentlife/docs/StudentHandbook_1213.pdf.
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, 123 Bert Walker Hall. 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.
- **Redo problems** from tests and homework assignments, particularly ones that you got wrong or have trouble understanding. Remember that you must crawl before you can walk. Similarly, you must have a good handle on the basics of respiratory care before you can master the advanced concepts.

WEEKLY SCHEDULE -- TENTATIVE!!!

Lecture	Office hours	Lab
Mon. 2:00 to 7:00 pm	Mon 10am-1pm	Wed. 9:30 am to 1:15 pm
Wed. 1:45pm to 3 pm		3:15 to 7:00 pm

REFERENCE MATERIAL**Required Texts:**

1. Egan's Fundamentals of Resp. Care, 10th ed., Kacmarek et. al., Elsevier, 2013, ISBN 978-0-323-08203-7. (**Egan**)
2. Mosby's Resp. Care Equipment, 8th ed., Cairo, et. al., Elsevier, 2009, ISBN 978-0-323-05176-7. (**Equip**)
3. Respiratory Care Patient Assessment & Care Plan Development, 1st ed., Shelledy, Peters Jones & Bartlett, 2016, ISBN 978-1-4496-7244-7 (**Shelledy**)
4. Clinical Manifestations and Assessment of Respiratory Disease, 6th ed., Des Jardins, Elsevier, 2011, ISBN 978-0-323-05727-1. (**Des Jardins**)
5. Lecture syllabus, unit outline, class handouts and supplement booklet.

Optional Texts:

1. The Essentials of Respiratory Therapy, 4th ed., Kacmarek, et. al., C. V. Mosby Co., 2005, ISBN 0323027008 (ISBN-13 9780323027007). (**Kacmarek**)
2. Rau's Respiratory Care Pharmacology, 8th ed., Gardenhire, Elsevier, 2012, ISBN 978-0-323-07528-2. (**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 Walker Hall (796-8415). Accommodations may be provided depending on the disability.

Course points are derived from unit quizzes and exams, a lab score, and a comprehensive final exam. Most **testable material** for unit and final exams is listed in unit objectives, lab objectives and questions, and the oral review questions from relevant task analyses, but can also be based on relevant review questions from the previous term as well as 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 *tentative* 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 to be routinely eligible for a makeup exam. I may be notified directly or via voice-mail message at (517) 796-8640. **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.**

Cell phones are to be set so as not to interrupt or disrupt normal classroom communications; i.e., no cell phone ringing should be detectable by classroom 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: PaO₂ 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 $\geq 76\%$.

Final Course Average Score = (total pts earned/total pts possible) x 100

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