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RES 260T.01: Respiratory Care Laboratory III

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**THE UNIVERSITY OF MONTANA-MISSOULA
COLLEGE OF TECHNOLOGY
RESPIRATORY CARE PROGRAM**

COURSE SYLLABUS

COURSE NUMBER AND TITLE: RES 260T Respiratory Care Laboratory III

DATE REVISED: Fall 2005

SEMESTER CREDITS: 1

CONTACT HOURS PER SEMESTER:

Lecture hours per week: 0

Lab hours per week: 3

PREREQUISITE: RES 250T and RES 255T

FACULTY:

Don Warden

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Office Hours: By Appointment

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Office Hours: TBA

RELATIONSHIP TO PROGRAM:

This course provides hands-on experience for students to apply cognitive knowledge from RES 131T and RES 231T to simulated hospital experiences. Psychomotor skills are used to prepare the student for clinical mechanical ventilation and life support hospital experience needed for RES 265T and RES 275T.

COURSE DESCRIPTION:

Advanced clinical lab competencies for respiratory care as studied in the laboratory setting. Demonstrations, peer review and instructor review are included. Emphasis is on psychomotor skills in the critical care area. Students will be NRP certified at the end of this class and be ready to take ACLS certification in the spring semester.

STUDENT PERFORMANCE OUTCOMES:

Upon completion of the course the student will be able to:

1. Complete laboratory exercises on specific ventilators provided by program personnel.
2. Assess the need for mechanical ventilation and set correct initial ventilator settings for the adult patients.
3. Perform circuit changes and ventilator-check procedures.
4. Exhibit unambiguous goal-directed communication for critical care life support procedures.
5. Evaluate capabilities and limitations of: PEEP/CPAP Systems, and pressure vs. volume ventilation.

METHODS OF INSTRUCTION:

Demonstrations and laboratory participation.

STUDENT ASSESSMENT METHODS AND GRADING PROCEDURES:***Grading Scale***

A = 4.0	95-100%	C = 2.00	74-76%
A- = 3.67	90-95%	C- = 1.67	70-73%
B+ = 3.33	87-89%	D+ = 1.33	67-69%
B = 3.00	84-86%	D = 1.00	64-66%
B- = 2.67	80-83%	D- = .667	60-63%
C+ = 2.33	77-79%	F = 0.00	

Students in the Respiratory Care program must have a "B-" final grade (80% or above) in order to progress within the program. Test questions will be based on unit objectives. Unit objectives are to be used as study guides.

PROFICIENCY EVALUATIONS:

Evaluation is based upon the following:

1. Completion of PEER check-offs listed in the laboratory exercises.
2. Completion of Integrated Scenario Check-offs.
3. Completion of laboratory ventilator exercises.
4. Laboratory quizzes.
5. Final Written Exam.
6. Final practical exercise.

METHODS TO IMPROVE COURSE:

Student evaluations and respiratory faculty assessment of course content.

ATTENDANCE: Class attendance is an integral part of this course. The test dates are included in this syllabus. Pop quizzes will be given randomly throughout the semester. Failure for the quizzes will result in a zero being recorded and used in computing your average.

OTHER POLICIES:

CELL PHONES/PAGERS: Due to an increasing number of students who own and use cell phones and pagers, it has become necessary to institute a policy regarding these tools during class times. As you are aware, these tools are distracting to an entire class. However, some students require them for business which allows them to further their education. Please follow these guidelines:

1. If the cell phone/pager is not business or emergency related, please turn it off.
2. Use the vibrating option on your pager.
3. Do not listen to the messages in class. Leave class quietly.
4. ***CELL PHONES AND PAGERS MUST BE TURNED OFF DURING EXAM AND CLASS PRESENTATIONS.***

SEATING: Many classrooms have chairs to accommodate persons with disabilities. These chairs will display the international disability symbol and are assigned to a particular student. Please refrain from using these chairs or making adjustments to them unless the chair is assigned to you. If you think you may have the need for a specific chair, please contact Disability Student Services. Thank you for your cooperation.

TEST/QUIZ MAKEUP: Make-up exams and lab experiences will only be given under extreme circumstances and then only if:

- a) permission is granted *in advance* by the course instructor, or
- b) a written excuse is provided by a medical doctor. The burden of proof is on the student, so you must document and prove a justifiable absence. Not following this procedure prior to the exam will automatically result in a zero score being recorded. Missed tests need to be made up within one week of the original date given. You are responsible for contacting the Academic Support Center to schedule the make-up. Failure to do so will result in a **ZERO** grade for the missed test.

The faculty senate guidelines concerning the issuance of incomplete grades will be followed. Attention to critical dates such as P/NP, drop, etc. is in the responsibility of the student. Students wishing to drop the class after the drop deadline will need a documented justifiable reason for doing so. Dropping the class for fear of bad grade or to protect a GPA are *not* justifiable reasons. The principles embodied in the **Student Handbook Code** will be adhered to in this course.

Pop quizzes will be given randomly throughout the semester. Failure to be present for the quizzes will result in a zero being recorded and used in computing your average. There will be no make-up opportunities provided for missed quizzes. It is the expectation that homework will be turned in when due. If you are not present, it is your responsibility to see that it is in my mailbox by 4:00 pm on the due date or a zero will be recorded and used in computing your average.

REQUIRED TEXTS:

TITLE: Fundamentals of Respiratory Care, 8th Edition

AUTHOR: Wilkins, et. al.

PUBLISHER : Mosby

TITLE: Basic Laboratory Competencies for Respiratory Care, 3rd Edition

AUTHOR: White, et al

PUBLISHER : Delmar

TITLE: Mosby's Respiratory Care Equipment, 7th Edition.

AUTHOR: Cairo, et al

PUBLISHER : Mosby

ACLS Manual

COURSE OUTLINE :

- I. Volume Ventilators
 - A. Puritan Bennette 7200 ae
 - B. Puritan Bennett 840
- II. NPPV
 - A. Bipap Vision
- III. Continuous Mechanical Ventilation
 - A. Monitoring
 - B. Proficiency Requirements

LABORATORY ETIQUETTE:

Students will work in groups. Prepare and read materials/exercises before class begins. It is important to actively participate with the equipment. Get direct hands-on experience. Be courteous, the lab will be crowded and cooperation and sharing of equipment is essential. Be attentive to mini-lecture/demonstrations by your instructor. Ask questions. Complete the laboratory exercises in the time allotted and hand it in. Enjoy the lab setting. All conditions are controlled and each performance step is outlined on the checklist. Concentrate on the technical skills and equipment-related aspects.

READING ASSIGNMENTS:

Chapters 25, 26, 27 and 28 (White text)

ALL READING ASSIGNMENTS SHOULD BE COMPLETED PRIOR TO LAB TIME.

It is imperative that you come to lab **prepared**, as the pace will be fast. Laboratory experience is designed to validate your didactic knowledge and prepare you for clinical application of respiratory care procedures.