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RES 129T.01: Patient Care and Assessment

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

COURSE SYLLABUS

COURSE NUMBER AND TITLE: RES 129T Patient Care and Assessment

DATE REVISED: Fall 2006

SEMESTER CREDITS: 3

CONTACT HOURS PER SEMESTER:

Lecture hours per week: 3

Lab hours per week: 2

PREREQUISITE: Completion of Health Core requirements, acceptance into the Respiratory Care program or permission of instructor.

FACULTY:

Bob Wafstet

Robert.Wafstet@umontana.edu

243-7821 (office)

Office: Bldg. HB

Office Hours: TBA

RELATIONSHIP TO PROGRAM:

This program offers the students the opportunity to develop fundamental knowledge of nursing skills related to patient care. It provides the basics of patient assessment which is an integral part of any health profession program.

COURSE DESCRIPTION:

Introduction to nursing-related knowledge and skills with an emphasis on application of Microbiology to aseptic technique. Assessment of the respiratory system along with cardiopulmonary diagnostic and laboratory test interpretation are covered. Medical terminology is integrated throughout this course. Peer and instructor review of selected clinical competencies are studied in a laboratory setting.

STUDENT PERFORMANCE OUTCOMES:

Upon completion of the course the student will demonstrate:

1. Knowledge of universal precautions.
2. Proper hand washing, gowning, gloving, and masking techniques, as well as procedures for moving patients.
3. Knowledge implications in spread of infections.
4. Knowledge of response of the body to infections.
5. Knowledge of sputum collection principles.
6. Knowledge of basic body mechanics and safety procedures in the hospital.
7. Knowledge and proper techniques for taking patient vital signs.
8. Knowledge and proper techniques of auscultation, percussion, and palpation.
9. Understanding of various disorders of body systems with related use of appropriated medical terminology, abbreviations, and descriptive terms.
10. Know why specific laboratory tests are run.
11. Understand the physiological process measured directly or indirectly by each test.
12. Understand the clinical implications of laboratory findings.
13. Know normal test values.
14. Understand what test results indicate.
15. Interpret blood gases.
16. Knowledge of sleep disorders and discuss assessment to be applied to clinical experience.
17. Have a basic understanding of X-ray interpretation.

METHODS OF INSTRUCTION:

Lecture, reference reading, demonstration, group discussion, and laboratory participation.

STUDENT ASSESSMENT METHODS AND GRADING PROCEDURES:

Unit Exams	75%
Pop Quizzes	15%
Labs	10%

GRADING SCALE

A = 4.00	95 – 100	C+ = 2.33	77 – 79	D+ = 1.33	67-64
A- = 3.67	90 – 94	C = 2.00	74 – 76	D = 1.00	64 - 66
B+ = 3.33	87 – 89	C- = 1.67	70 – 73	D- = 0.67	60 - 63
B = 3.00	84 – 86			F = 0.00	
B- = 2.36	80 – 83				

Students in the Respiratory Care program must have a “B” final grade in order to progress within the program. Test questions will be based on unit objectives. Unit objectives are to be used as study guides.

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 zero being recorded and used in computing your average.

OTHER POLICIES:

Academic Misconduct:

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University.

All students need to be familiar with the Student conduct Code. The Code is available for review online at <http://www.umt.edu/SA/VPASA/index.cfm/page/1321>.

Disabilities:

Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please speak with me after class or in my office. Please be prepared to provide a letter from your DSS Coordinator.

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 them 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 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. Also 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 and policies embodied in the *Student Handbook Code* will be adhered to in this course.

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 p.m. on the due date or a **ZERO** will be recorded and used in computing your average.

REQUIRED TEXT:

Egans Fundamentals of Respiratory Care, 8th ed.

Author: Wilkins, et al

Publisher: Mosby

Workbook for Egans Fundamentals of Respiratory Care

Author: Wilkins, et al

Publisher: Mosby

Clinical Assessment in Respiratory Care, 5th Edition

Author: Wilkins, et al

Publisher: Mosby

Programmed Medical Terminology, 2nd Edition

Author: LaFleur Brooks

Publisher: Mosby

Mosby's Medical Nursing and Allied Health Dictionary

Publisher: Mosby

Basic Clinical Lab Competencies for Respiratory Care, 4th Edition

Author: White, et al

Publisher: Mosby

Theory:

Tuesday, Thursday 8:10-10:00

COURSE OUTLINE:

- I. Medical Terminology and Abbreviations
- II. Spirometry and Pulmonary Function Studies
 - A. Lung Volumes
 - B. Lung Capacities
 - C. Flow Rates
 - D. Significance
 - E. Pulmonary Function Testing
 - F. Principles of Measurement
 - G. Interpretation of Test Results
- III. Safety
 - A. Safety
 - 1. Basic Body Mechanics
 - 2. Patient Movement and Ambulation
 - 3. Electrical Safety
 - 4. Fire Hazards
 - 5. Safety Films
 - B. Microbiology
 - 1. Classifications of Microbes
 - a. Taxonomy
 - b. Prokaryote
 - c. Eucaryote
 - 2. Bacterial Morphology
 - a. Bacilli
 - b. CocciCoccobacilli
 - c. spirochetes
 - 3. Bacterial Staining Characteristics
 - a. Gram Positive
 - b. Gram Negative
 - c. Acid-Fast
 - 4. Bacterial Growth Requirements
 - a. Types of Media
 - b. Practical Application
 - c. Endospores
 - 5. Bacterial Growth
 - a. Viability
 - b. Generation Time
 - 6. Fungi
 - a. Characteristics
 - b. Types
 - c. Systemic fungi
 - d. Treatment

7. Viruses
 - a. What are they?
 - b. Replication
 - c. Vaccines
 - d. Pathogens
8. Rickettsia/Chlamydia
 - a. Characteristics
 - b. Types
- C. Principles of Infection Control
 1. Clinical Aspects of Microbiology
 2. Spread of Infection
 3. Infection Control Methods
 - a. Universal Precautions
 - b. Hand Washing
 - c. Gowning, Gloving, Masking
 - d. Isolation
 4. Sputum Induction
 5. Consideration with the HIV Virus
- IV. Patient Vital Signs
 - A. Temperature
 - B. Pulse
 - C. Respirations
 - D. Blood Pressure
- V. Patient Assessment
 - A. Inspection
 - B. Palpation
 - C. Percussion
 - D. Auscultation
 - E. Physical Signs of Respiratory Disease
- VI. X-Ray Interpretation
 - A. X-Ray Interpretation
 1. Indicators
 2. Evaluation
 3. Treatment
 - B. Laboratory Tests
 1. Liver
 2. DWBC
 3. Red Blood Cell Evaluation
 4. Glucose, Sed Rate And Chemistry Panel
 5. Renal
 6. Interpretation of Arterial Blood Gases

- VII. EKG Interpretation
 - A. EKG Interpretation
 - 1. Cardiac Cycle
 - 2. Conduction System
 - 3. Definition
 - 4. Running an EKG
 - 5. Reading EKG's
 - B. Assessment of Sleep and Breathing
 - 1. Symptoms of Sleep and Breathing
 - 2. Assessment
 - 3. Treatment
- VIII. Assessment of The Geriatric Patient
 - A. Assessment of the Geriatric Patient
 - B. Bronchoscopy Assisting
 - C. Assessment of the Home Care Patient

WEEKLY PLAN:

Lecture, demonstration, and lab experiences will revolve around the exam schedule.

INSTRUCTOR EXPECTATIONS:

Because the course has a great deal of new material, it is very important to study consistently. Some suggestions for better study are:

1. Read the unit objectives at the beginning of each chapter-find out what you are expected to learn.
2. Reading the material before class will help you understand the lecture.
3. Look up definitions to words you do not understand.
4. Attend every class and take notes but do not try to write down everything. Concentrate on concepts.
5. Review your notes as soon after class as possible make sure you can read them!
6. Study notes/material and compare with objectives.
7. Write workbook answers in *your own words*. This makes the material "yours."
8. Study no more than one hour before taking a short break.
9. Relate information to prior learning/examples to develop a "picture" in your mind.
10. Ask instructor for clarification as needed during or after lecture.
11. Study regularly in a quiet place; set study hours and keep them.
12. Plan something for fun and relaxation - stress management.
13. See your instructor when you think you need help. Your instructor wants you to succeed and will have some ideas which should help.
14. Review for units exams and finals can be made easier by frequent review of chapter content reviews.
15. Be in class and don't miss pop quizzes.

EXAM SCHEDULE:

Friday Tuesday	September 8 September 12	TERMS: Chapter 1, 2, and 12 Unit II, Spirometry
Friday Thursday	September 22 September 28	TERMS: Chapter 3 and 4 Unit III, Safety/Infection Control
Thursday Tuesday	October 5 October 10	TERMS: Chapter 5 and 6 Vital Signs (Unit IV)
Thursday Friday	October 19 October 20	TERMS: Chapter 7 and 8 Respiratory System Assessment (Unit V)
Thursday Friday Tuesday	November 2 November 3 November 14	TERMS: Chapter 9, 10 and 11 Unit VIA X-Ray, and VIB Lab/ABG
Friday	November 17	Abbreviations
Tuesday	November 21	Unit VII EKG and sleep
Monday	December 11 (10:00-12:00)	Unit VIII Geriatric/Home Care/Bronchoscopy assisting

Exam dates are subject to change as necessary.

LABORATORY DEMONSTRATION

Friday	Sep 1	PFT
Friday	Sep 15	Safety
Friday	Sep 22	Gown, Glove, Mask and Handwashing
Friday	Sep 29	Vitals
Friday	Oct 6	Respiratory Assessment
Friday	Nov 3	EKG