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### AHRC 232.01: Respiratory Pathology and Disease

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**The University Of Montana - Missoula College  
Respiratory Care Program**

**COURSE NUMBER AND TITLE:** AHRC 232: Respiratory Pathology and Disease  
Spring 2016

**CLASS MEETS:** Tue: 08:30 – 10:00 & 14:30 – 16:00 HB 16

**FACULTY:** Paul Crockford, BSRC, RRT  
paul.crockford@umontana.edu  
406.243.7918 (office)  
Office: Griz Hut 4  
Office Hours: Tue-Fri 12:30 – 13:00 and by appointment

**COURSE DESCRIPTION:** Respiratory pathology and disease are very complex subjects. A solid basic understanding of them in the adult population is mandatory knowledge for every Respiratory Care Practitioner. This course will provide students a knowledge base with which to identify various cardio-pulmonary conditions and respiratory diseases. By utilizing case studies, the student will have opportunities to apply principles and modalities studied in previous courses.

**PREREQUISITES:** AHRC 120, 129, 131, 133, 150

**CREDITS:** 3

**REQUIRED TEXT:**

Title: Respiratory Disease: A Case Study Approach to Patient Care, 3<sup>rd</sup> Ed.  
Author: Wilkins, et al  
Publisher: F.A. Davis  
ISBN: 10:0-8036-1374-1

Title: Egan's Fundamentals of Respiratory Care, 10<sup>th</sup> Ed.  
Author: Kacmarek, et al  
Publisher: Elsevier  
ISBN: 978-0-323-08203-7

**COURSE REQUIREMENTS:**

**Attendance:** In order to increase your understanding of, and in order to be fully engaged with the course content, you are expected to attend every class unless you are in a clinical rotation. Missing a class substantially affects your understanding of the subject and your ability to be successful in the course. Those missing class for any reason are encouraged to meet with a classmate to review the material and copy notes.

**Quizzes & Worksheets:** Worksheets are collected and quizzes may be given at the beginning or end of any class period. There is no make-up for missed quizzes. It is the student's responsibility to turn in worksheets on the due date, or prior to the due date if an absence is planned. *Late worksheets earn a maximum of half-credit.*

Quizzes/Attendance/Participation will comprise **approximately 10% of your final grade**

**Exams:** Four exams constitute **approximately 90% of the final grade.** There is no cumulative final exam.

<b>GRADING SCALE:</b>	A =	4.0	95-100%	C =	2.00	74-76.9%
	A- =	3.67	90-94.9%	C- =	1.67	70-73.9%
	B+ =	3.33	87-89.9%	D+ =	1.33	67-69.9%
	B =	3.00	84-86.9%	D =	1.00	64-66.9%
	B- =	2.67	80-83.9%	D- =	.067	60-63.9%
	C+ =	2.33	77-79.9%	F =	0.00	<60%

**Students in the Respiratory Care Program must have a “B-” (80% or greater) final grade in order to progress within the program.**

**METHODS TO IMPROVE COURSE:**

Student evaluations and respiratory faculty assessment of course content.

**ATTENDANCE:** Class attendance is an integral part of this course. Exam dates will be announced. Only legitimate reasons for missing an announced exam will be accepted. Failure to appear for scheduled exams will result in zero points awarded.

Expect periodic unannounced quizzes. There is no make-up for missed quizzes.

SEE: TEST/QUIZ MAKEUP

**Please refer to your Student Manual for additional Policies and Student Resources.**

**ACADEMIC INTEGRITY:**

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://life.umt.edu/vpsa/student\\_conduct.php](http://life.umt.edu/vpsa/student_conduct.php).

**DISABILITY ACCOMODATION:**

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. For more information, visit the Disabilities Services website at <http://www.umt.edu/dss/> or call 406-243-2243 (voice/text)

Note: Instructor reserves the right to modify syllabi and assignments as needed based on faculty, student, and/or environmental circumstances.

**Cell Phones/Pagers:** It has become necessary to institute a policy 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:

If the cell phone/pager is needed for emergency related communication, use the vibrating option.

Do not listen to the messages in class. Please leave class quietly.

**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 points awarded for the exam. Missed tests need to be made up within *one week* of the original date given. You are responsible for contacting the Academic Support Center, 243-7826, 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 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.

**Quizzes:** Failure to be present for quizzes will result in a zero being recorded and used in computing your average. There will be no make-up opportunities for missed quizzes.

**Homework:** 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.

**Student Decorum:** All students are expected to conduct themselves in a professional manner at all times in both the classroom and alternative settings. Discussions of an academic nature are encouraged and can enhance student learning. However, social conversation is not appropriate during lectures as it creates a distraction to students and faculty. Respect and courtesy will be shown at all times to peers, faculty, and the general public. **There are no exceptions to this policy at any time or under any circumstances.**

**COURSE OBJECTIVES:** At the end of the course, the student will be able to:

- Identify various cardio-pulmonary diseases and apply theories, principles and modalities learned in didactic and laboratory settings to the treatment of these diseases and conditions.
- Identify the important signs and symptoms of these diseases and conditions.
- Describe the pathophysiology of these diseases and conditions.
- Describe the elements of a systematic approach to patient assessment
- Describe therapeutic interventions as applicable from prior course work.
- Utilize a case study approach to disease and condition management.
- Apply knowledge and test-taking strategies to exams and quizzes designed to prepare the student for NBRC credentialing examinations

**RES 232 COURSE OUTLINE:** (See text for specific objectives per chapter)

- (1) Patient Assessment (Ch. 15: Egan's)
- (2) Respiratory Failure (Ch. 41: Egan's)
- (3) Asthma (Pg 535-539: Egan's)
- (4) COPD (Pg 526-535: Egan's)
- (5) Cystic Fibrosis (Pg 697-698: Egan's)

#### **Exam I**

- (13) Post-Operative Atelectasis (pg 946-947: Egan's)
- (16) Bacterial Pneumonia (Pg 507-520: Egan's)
- (17) Pneumonia in the Immunosuppressed Patient
- (19) Tuberculosis (Pg 520-522: Egan's)
- (14) Interstitial Lung Disease (Ch. 24: Egan's)

#### **Exam II**

- (12) Chest Trauma (Pg 572: Egan's)
- (11) Acute Respiratory Distress Syndrome (Ch. 27: Egan's)
- (6) Hemodynamic Monitoring and Shock (Pg 1183-1188: Egan's)
- (7) Pulmonary Thrombolytic Disease (Pg 580-590: Egan's)

#### **Exam III**

- (8) Heart Failure
- (20) Lung Cancer (Ch. 28: Egan's)
- (15) Neuromuscular Disease (Pg 641-655)
- (9) Smoke Inhalation Injury and Burns

**Exam IV** – during Finals Week

**All Exam Dates TBA**