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AHRC 129.01: Patient Care and Assessment - Cardiopulmonary Anatomy & Physiology

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Cardiopulmonary Anatomy & Physiology Syllabus

Autumn 2024

General Course Information

Course Information

School name:	Missoula College – University of Montana
Course number:	AHRC 129
Letter designation:	
Section number:	01
Course title:	Patient Care and Assessment
Number of credits:	4
Prerequisite(s) or corequisite(s):	Acceptance into the Respiratory Care program

Instructor Information

Name of instructor:	Paul J. Crockford, Med, BSRC, RRT
Email:	Paul.crockford@mso.umt.edu
Office Location:	316
Office Hours:	Monday & Tuesday 1:00 PM – 4:00 PM or by appointment. Office 316
Teaching Assistant(s):	

Class Times & Location

Class meets Tuesday, Wednesday, Thursday, from 0900 – 12:50. We will always have class in MC 112, unless otherwise stated.

Course Information

Course Description & Objectives

Assessment of the cardiopulmonary system along with diagnostic and laboratory test interpretations are covered. Peer and instructor review of selected clinical competencies are studied in a laboratory setting. Students will be expected to actively participate in class discussion.

This program offers the students the opportunity to develop a scientific basis for fundamental patient assessment skills that are integral to the Respiratory Care Program. Bedside patient assessment as well as interpretation of diagnostic studies and test results will be introduced.

At the end of this course the student will be able to:

1. Discuss the factors essential in the creation of a therapeutic climate.
2. Explain three considerations of an effective health history.
3. Explain the relevance of cultural diversity in the history-taking process.
4. List the major components of a health history.

5. Identify the four major examination techniques.
6. Define common terms used in the assessment of the respiratory system.
7. Explain the technique for auscultation of the chest.
8. Define terms associated with normal and abnormal breath sounds.
9. List the signs associated with respiratory distress.
10. Identify common pathologic processes of the respiratory system and pertinent physical findings that extend to other body systems.
11. Identify the significance of various chest landmarks.
12. Explain the significance of sounds heard during cardiac auscultation.
13. Explain the significance of jugular venous distention.
14. Explain common findings associated with an assessment of the neurologic system.

Student Learning Outcomes

1. Student will be able to describe and perform the elements of patient history and physical examination to include recognition of common cardiopulmonary symptoms.
2. Student will be able to perform basic bedside spirometry to include interpretation of pulmonary function test results.
3. Student will understand lab values including blood chemistries, hematology, and arterial blood gas sampling, analysis, and interpretation.
4. Student will be able to perform limited cardiac assessment and interpretation of chest x-rays.
5. Student will be introduced to Interventional Pulmonary Procedures such as bronchoscopy, airway stenting, and thoracentesis.
6. Student will be able to describe and perform limited nutritional assessment for cardiopulmonary patients.
7. Student will be familiarized with polysomnography and sleep disordered breathing, home respiratory care, and care of the elderly patient.

Course Format

Class will be in-person, supplemented by remote lecture via ZOOM as necessary, and additionally, there may be reference reading, video presentations, assignments, and group discussions. The schedule will be administered via a block format according to the above listed class meeting times.

Materials

Respiratory Care Principles and Practice, Hess, D. R., et al, Jones & Bartlett Learning

Respiratory Care Patient Assessment and Care Plan Development, Shelledy, D. C. & Peters, J. I., Jones & Bartlett Learning

Course Calendar



AHRC 129 Daily
Class Schedule 2024

Grading Information

Specific dates for exams will depend upon our progress through the course material and will be announced well in advance. All exams will be administered in the classroom or via Canvas. Regular attendance will be essential to success in the course as open class discussion will be a major learning component.

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 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 office by 4:00 p.m. on the due date or a zero will be recorded and used in computing your average.

Grading Scale

Unit Exams (5 ea):	80%	GRADING SCALE:					
Quizzes	10%	A =	4.0	95-100%	C =	2.00	74-76%
Assignments/Participation:	10%	A- =	3.67	90-95%	C- =	1.67	70-73%
<u>(Approximate Breakdown)</u>		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- =	.067	60-63%
		C+ =	2.33	77-79%	F =	0.00	

Students in the Respiratory Care Program must have a "B-" (80% or greater) 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.

Course Expectations & Policies

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

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. It is acceptable for tablet or laptop devices to be used for taking notes during class time. Any other use of these devices, unless otherwise stated by the instructor, is to be avoided. There are no exceptions to this policy at any time or under any circumstances

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 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 not business or emergency related, please turn it off.

Use the vibrating option on your pager.

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.

Attendance Policy

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. It is the student's responsibility to notify the instructor of illness/events that will prevent in-person attendance, so that other arrangements (i.e. ZOOM link) can be made. While in-person attendance is related to potentially better outcomes, the student should NOT attend class in-person if they are ill. This will reduce the possibility of further community spread of potentially infectious diseases.

Course Workload

Class meets for four hours at a time, three days per week for a total of five weeks. It is realistic to expect to spend an additional 4 to 5 hours each day for the completion of projects, assignments, assigned reading, etc. While not all units will demand this much time, it will be to your benefit to budget this time into your life.

Communication Expectations

[Instructor Note: Replace the filler text with a description of Netiquette guidelines, how best to contact instructor, how to format emails, how to participate effectively in class, etc.]

The primary method of communication between students and the Respiratory Care faculty will be email. It will be useful to also set up a group chat for more immediate information sharing. I will make every effort to respond to emails within 24 hours, unless I am not in an area that has internet coverage. I can also be reached by phone. My office number is 406-243-7918.

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. It is acceptable for tablet or laptop devices to be used for taking notes during class time. Any other use of these devices, unless otherwise stated by the instructor, is to be avoided. There are no exceptions to this policy at any time or under any circumstances.

Lastly, since we will be covering significant amounts of material in very short time spans, it is absolutely vital for you to do any assigned reading, as well as reviewing the lecture slides prior to class. Failing to come to class prepared to discuss the material for that day may likely result in you getting behind quickly.

Academic Misconduct and the Student Conduct Code

The [Student Conduct Code](#) at the University of Montana embodies and promotes honesty, integrity, accountability, rights, and responsibilities associated with constructive citizenship in our academic community. This Code describes expected standards of behavior for all students, including academic conduct and general conduct, and it outlines students' rights, responsibilities, and the campus processes for adjudicating alleged violations.

ODE Accommodations

The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and the Office for Disability Equity (ODE). If you anticipate or experience barriers based on disability, please contact the ODE at 406-243-2243 or ode@umontana.edu, or visit [Office of Disability Equity website](#). for more information. Retroactive accommodation requests will not be honored, so please, do not delay. As your instructor, I will work with you and the ODE to implement an effective accommodation, and you are welcome to contact me privately if you wish.

Health and Safety Policies (if applicable)

[Instructor Note: Replace the filler text with a description of any safety issues related to the class such as safety issues involving equipment and facilities, specific clothing or safety gear to be worn, special COVID accommodations for your facility, studio hours, and no animals or children allowed in the studios, ventilation, consideration of eye strain – taking breaks, etc.]

Information for Students

Land Acknowledgement

The University of Montana acknowledges that we are in the aboriginal territories of the Salish and Kalispel people. Today, we honor the path they have always shown us in caring for this place for the generations to come.

Inclusion Policies

[Instructor Note: May be school-specific or use the [UM Diversity Statement](#) below.]

The University of Montana values leadership, engagement, **diversity**, and sustainability, because our institution is committed to respecting, welcoming, encouraging, and celebrating the differences among us.

As members of the University of Montana community, we aspire to:

- Respect the dignity and rights of all persons.
- Practice honesty, trustworthiness, and academic integrity.
- Promote justice, learning, individual success, and service.
- Act as good stewards of institutional resources.
- Respect the natural environment.

Cultural Leave Policy

Cultural or ceremonial leave allows excused absences for cultural, religious, and ceremonial purposes to meet the student's customs and traditions or to participate in related activities. To receive an authorized absence for a cultural, religious or ceremonial event the student or their advisor (proxy) must submit a formal written request to the instructor. This must include a brief description (with inclusive dates) of the cultural event or ceremony and the importance of the student's attendance or participation. Authorization for the absence is subject to approval by the instructor. Appeals may be made to the Chair, Dean or Provost. The excused absence or leave may not exceed five academic calendar days (not including weekends or holidays). Students remain responsible for completion or make-up of assignments as defined in the syllabus, at the discretion of the instructor.

Food & Housing Insecurity

Any student who faces challenges securing food or housing, and believes that this could affect their performance in this course, is urged to contact any or all of the following campuses resources.

Food Pantry Program

UM offers a food pantry that students can access for emergency food. The pantry is open on Tuesdays from 12 to 5 PM and Fridays from 10 AM to 5 PM. The pantry is located in UC 119 (in the former ASUM Childcare offices). Pantry staff operate several satellite food cupboards on campus (including one at Missoula College). For more information about this program, email umpantry@mso.umt.edu, visit the UM Food Pantry website or contact the pantry on social media (@pantryUm on twitter, @UMPantry on Facebook, um_pantry on Instagram).

ASUM Renter Center

The Renter Center has compiled a [list of resources](https://medium.com/griz-renter-blog) (<https://medium.com/griz-renter-blog>) for UM students at risk of homelessness or food insecurity. Students can schedule an appointment with Renter Center staff to discuss their situation and receive information, support, and referrals.

TRiO Student Support Services

TRiO serves UM students who are low-income, first-generation college students or have documented disabilities. TRiO services include a textbook loan program, scholarships and financial aid help, academic advising, coaching, and tutoring.

Students can [check their eligibility](http://www.umt.edu/trioss/apply.php) (www.umt.edu/trioss/apply.php) for TRiO services online. If you are comfortable, please come see members of the teaching team. We will do our best to help connect you with additional resources.

The Writing and Public Speaking Center

[The Writing and Public Speaking Center](#) provides a collaborative learning environment for all members of the University of Montana community. Professional tutors support undergraduates, graduate students, alumni, faculty, and staff working on a wide variety of academic, professional, and creative writing tasks.

Online and in-person appointments are available six days a week. Same-day appointments are often available!

The Math Learning Center

[The Math Learning Center](#) has in-person, drop-in tutoring to help students with homework and test preparation needs. Check their website for drop-in hours and location.

UM Information Technology

Get the technology, tools, and services you need. Visit the [UM IT webpage](#) for services and self-help articles, or contact the help desk directly by calling 406.243.HELP (4357) or emailing ithelpdesk@umontana.edu. The Help Desk is open **Monday through Friday, 8 AM - 5 PM Mountain Time** (excluding University holidays).

Supporting Mental Well-Being of Students at UM

At UM, we value every student's wellbeing and believe that taking care of yourself is imperative to your success as a student. College students often experience issues that may interfere with academic success such as academic stress, sleep problems, juggling responsibilities, life events, relationship concerns, or feelings of anxiety, hopelessness, or depression. If you or a friend is struggling, we strongly encourage seeking support. Helpful, effective resources are available on campus.

- If you are struggling with this class, please visit during office hours or contact me by email.
- Check-in with your academic advisor if you are struggling in multiple classes, unsure whether you are making the most of your time at the University of Montana
- Reach out for Counseling Support at Curry Health Center Counseling. To make a counseling appointment call 406-243-4712 or go online to the Curry Health Portal to schedule an appointment
- If you feel you need accommodations for a mental health concern, reach out to the Office of Disability Equity (ODE) at 406-243-2243
- If you feel that you would benefit from general wellness skills to support your overall stress reach out to CHC-Wellness at 406-243-2809
- If you have experienced sexual assault, relationship violence, bullying, intimidation, or discrimination contact the Student Advocacy Resource Center (SARC) 406-243-4429 *24/7 support line 406-243-6559
- If you are experiencing a mental health crisis and seeking immediate help, call 911, go to the nearest hospital emergency room or call Campus Safety at 406-243-4000