

Coconino Community College
SYLLABUS FOR Human Pathophysiology
Spring 2024
BIO 218-02 (4 credits)

Instructor: Thomas Lehman

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Student Office Hours:

- By appointment

COURSE DESCRIPTION: This course surveys disease processes that affect the body systems, focusing on altered physiological mechanisms in cells and organ systems. **Prerequisite:** BIO 201, BIO 202.

COURSE GOALS: This course will build upon an understanding of the structures and functions of the human body by covering the major diseases and pathologies that affect cells and organ systems.

COURSE OUTCOMES: Students will be able to:

1. identify the major organs of each of the systems in the human body;
2. describe the physiological effects of major pathologies on each of the human organ systems;
3. list the major causes of disease that affect human systems;
4. state in written form the relationships between physiological dysfunction and homeostatic responses; and
5. discuss the progression of certain diseases in group settings.

COURSE CONTENT:

1. Cellular Adaptation, Stress, Inflammation and Healing.
2. Mechanisms of Disease (Immune, Infection, Trauma, Heredity, Metabolic, Neoplasm).
3. Cardiovascular and Hematological Disorders.
4. Respiratory and Digestive Disorders.
5. Congenital Disorders, Age-related Disorders, Disorders Associated with Pregnancy.
6. Urinary and Reproductive Disorders.
7. Nervous System and Mental Disorders.
8. Endocrine Disorders.
9. Musculoskeletal and Integumentary Disorders.

COURSE REQUIREMENTS:

1. **Required:**

- *Human Diseases, 8th edition*, Zelman, Tompary, Raymond, Holdaway, and Mulvihill, Prentice Hall Publishers, 2015 (ISBN 978-013-342474-4)
- *Taber's Cyclopedic Medical Dictionary (indexed), 24th edition*, F.A. Davis Co. Publishers, 2016 (ISBN 978-1719642859)

2. **Access to CANVAS:**

- Canvas is the online course management system for CCC. There will be online assignments throughout the semester. Students are expected to access their Canvas shell daily.
- Course announcement and schedule changes will be posted through Canvas. Send course-related communications to the instructor through Canvas. The instructor plans to respond to student Canvas emails within 24 hours of receipt.
- Go to <http://coconino.instructure.com>; It will ask for your email address and password (our IT department can assist you with this step), then take you to your classes for the semester.

COURSE POLICIES:

1. **Classroom Etiquette/Standards of Conduct:**

- a. Reading:** Students are expected to complete all the assigned reading for both lecture and laboratory before attempting the weekly assignments. This ensures the best use of everybody's time and hopefully alleviates confusion.
- b. Sensitive Topics:** We will be covering a few topics that may be sensitive to certain individuals (i.e. death, dissection, disease). No disrespect is meant in covering these topics, but they are integral to this course. If you have concerns about any of these topics, please contact the instructor.
- c. Professionalism:** The instructor will treat you as adults and will ask that you act as adults. Respect and consideration for your classmates during lectures, labs, and exams will be expected. Plagiarism on any assignments will not be tolerated.
- d. Special Assistance:** Professional disability specialists are available at Disability Resources to facilitate a range of academic support services and accommodations for students with disabilities. If you have a documented disability, you can request assistance by contacting Disability Resources at disability.resources@coconino.edu (e-mail), 928-226-4377, or 928-226-4342. Students may begin the accommodation process by submitting a self-identification form online at <https://www.coconino.edu/disability-resources> (click on Request for Support).
- e. College Information:** There is a link to the syllabus statement within Canvas – College Information tab on the left – with details and contact information for college services.

2. **Academic Dishonesty Procedure:**

- a. College Policy:** Academic dishonesty is a violation of the Student Code of Conduct as defined in Procedure 503-01. When a student commits an act of academic dishonesty, the instructor is responsible for determining the grade for the course or assignments. Incidents of academic dishonesty are reported to the Dean of Student development and Community Engagement for adjudication and follow up
- b. Instructor Policy:** The instructor does not tolerate cheating at all. If you are suspected of cheating, the instructor will contact you and discuss the situation. If the instructor has evidence of your cheating, an administrative drop will be initiated immediately and you will be removed from the course. Simply put, don't even try to cheat.
- c. Online AI tools:** AI content generation tools, including ChatGPT, are not allowed in this course. Their use could hinder your development as an independent thinker and compromise the course learning outcomes. Utilizing these tools will be deemed academically dishonest, violating our Academic Integrity Policy.

3. **Attendance:**

- a. **College Policy:** Students must attend their classes the first week of school or a grade of NS (“no show”) will be recorded by their instructor and the student will be dropped from the roster. Students will not receive refunds for classes in which they have received an NS grade. Students are financially and academically responsible for all courses that they do not drop by published deadlines. Students must drop or withdraw from any class that they do not wish to complete. The Office of Registration and Enrollment Services publishes instructions for students to follow when dropping or withdrawing from classes.
- b. **Exam Policy:** During exams, personal communication devices (such as cell phones) will be turned off. If your electronic device goes off during an exam, you forfeit that exam.

4. **Assignments:**

- a. **Syllabus Agreement:** Read the course syllabus and syllabus statement. This is an online quiz that you will need to complete to demonstrate your understanding and agreement to the conditions of the syllabus. If you do not complete the syllabus agreement *by the deadline specified in Canvas*, your overall course grade will be lowered 1-percentage point per day.
- b. **Missed Assignments:** If you know that you will miss an assignment (such as an exam or checkpoint), coordinate with the instructor beforehand to schedule completing the assignment. Any assignment missed without prior coordination (at least 48 hours’ notice) will be graded “0”. There will be no “make up” assignments or extra credit assignments.
- c. **Spelling & Grammar:** You will be learning a new language of terminology and concepts throughout this course and will need to demonstrate a working knowledge of these terms and concepts. In most instances, partial points may be deducted for errors. In certain instances, full points may be deducted (these will be pointed out in the course). This is an important skill that you will want to master early on in this course.

COURSE EVALUATION: It will be your responsibility to complete these assignments on time.

Activity	Point Allotment	Total
Chapter Quizzes	15 @ 15 points	27% of the grade or Points
Case Studies	10 @ 20 points	24% of the grade or Points
Multi-chapter Exams	6 @ 50 points	36% of the grade or Points
Final Exam	1 @ 100 points	12% of the grade or Points

GRADING SCALE: The instructor's goal is to return graded papers within one (1) week of the assignment date. Grades will be posted within Canvas.

Grading Scale (the instructor does not "round up" – i.e. 79.9% is a "C"):	100-90	A Excellent
	89-80	B Exceeds Standard
	79-70	C Meets Standard
	69-60	D Below Standard
	<60	F Failure

These are the instructor's expectations for each letter grade:

A – Exceptionally good performance, demonstrating a superior understanding of the subject matter, a foundation of extensive knowledge, and a skillful use of concepts and/or materials. This student will exhibit an interest in the material beyond that which is presented in the classroom.

B – Good performance, demonstrating capacity to use the appropriate concepts, a good understanding of the subject matter, and an ability to handle the problems and materials encountered in the subject.

C – Adequate performance, demonstrating an adequate understanding of the subject matter, an ability to handle relatively simple problems, and adequate preparation for moving on to more advanced work in the field. This grade is earned by the student who fulfills all the minimum requirements but little else.

D – Minimally acceptable performance, demonstrating at least partial familiarity with the subject matter and some capacity to deal with relatively simple problems, but also demonstrating deficiencies serious enough to make it inadvisable to proceed further in the field without additional work.

FINAL EXAM POLICY: The final exam is scheduled for the start of the last week of the semester. The second day of the week is reserved if delays (i.e. snow days) require rescheduling of the final exam.

SEMESTER CALENDAR: All assignments will be posted in Canvas. Changes to these assignments will be posted in Canvas. Here are a few of the more important dates as pertaining to this course:

- Jan 15 (M) = Martin Luther King, Jr. Day (college is closed)
- Jan 22 (M) = last day to drop this class with 100% refund (without record)
- Feb 19 (M) = President's Day (college is closed)
- Mar 11-16 = Spring Break (college is closed)
- Apr 12 (F) = last day for student-initiated withdrawal
- May 6 (M) = Final Exam

Spring 2024 BIO 218-02 Schedule:

(Please note that this is a tentative schedule and is subject to change)

WEEKLY TOPICS

- Check Canvas for precise dates of each topic.

Week 1: Mechanisms of Disease: Inflammation and Trauma

Week 9: Reproductive Disorders (Female)

Week 2: Mechanisms of Disease: Infections and Neoplasms

Week 10: Reproductive Disorders (Male)

Week 3: Mechanisms of Disease: Heredity and Metabolic Assaults

Week 11: Endocrine Disorders

Week 12: Nervous System Disorders

Week 4: Cardiovascular Disorders

Week 13: Mental Illnesses and Cognitive Disorders

Week 5: Hematological Disorders

Week 14: Musculoskeletal Disorders

Week 6: Respiratory Disorders

Week 15: Integumentary Disorders

Week 7: Digestive Disorders

Week 16: Final Exam

Week 8: Urinary Disorders

WEEKLY SCHEDULE

- Check Canvas for precise times and dates of each assignment.

Online: Chapter videos to watch, textbook to read, notes to write before completing the weekly assignments.

Mondays: New weekly module opens. Review the introduction page. Use the chapter resources to build a set of notes (read the textbook).

Fridays: Discussion posts are due. You can post anytime throughout the week (no extension).

Sundays: Online quiz over that week's materials. There are practice quizzes to help you prepare beforehand.