

BIOLOGY 254: HUMAN ANATOMY AND PHYSIOLOGY II

Course Description: A lecture and laboratory course in the anatomy and physiology of the human body. Study begins with introductions to basic terminology and cell structure; then extends to a survey of the organ systems. Laboratory study enhanced via microscopic study of tissues, preserved specimens and anatomic models, the use of interactive computer models, cat dissection, and the examination of plastinated cadaver(s). A strong biology background, Biology 132, Medical Terminology or Body Structure and Function is recommended. **Prerequisite: BIOLOGY 253**

Instructor: Jeffrey Pollet

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Office Hours:

Monday	Tuesday	Wednesday	Thursday	Friday
12:30 – 1:30pm	9:00am – Noon	10:30 – 1:30pm	9:00am – Noon	By Appt.

Texts: -Tortora & Derrickson -PRINCIPLES OF ANATOMY & PHYSIOLOGY, 12th, 13th or 14th ed. John Wiley & Sons

-BIO 254 Lab Manual (departmental)

Grade: The grade you earn in this course will be based upon total points accumulated on:

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|-------------------------------------|-----------------------------------|
| 1) Scheduled exams (80 pts. each) | 4) Pre-Test Quizzes (5 pts. each) |
| 2) Lab Practicals (60-80 pts. each) | 5) Laboratory attendance |
| 3) Research paper (50 points) | 6) Lab Assignments |

Grading scale: 4.0 (A) 95-100%; 3.5 (A-/B+) 90-94%; 3.0 (B) 85-89%; 2.5 (B-/C+) 80-84%; 2.0 (C) 75-79%; 1.5 (C-/D+) 70-74%; 1.0 (D) 65-69%; 0.5 (D-) 60-64%. You will be expected to keep a record of your grades. Grade spreadsheets will be posted to the course JetNet site.

Absence Policy: You are responsible for all assignments, handouts and materials covered in lecture and in lab. If you must miss a lab exercise or an exam, it is your responsibility to arrange make-up. The privilege of making-up exams and lab practicals will be extended only in the case of emergency, illness, or previously authorized business. Please let me know in advance whenever possible. All make-ups will be different; the second (and subsequent) make-up's point value will be 80% of your actual score. Lab work can be made-up by attending other lab sections or by doing the work on your own. Unannounced quizzes cannot be made up.

General Philosophy: You are an adult and a college student. As such you are expected to be able to work and learn independently, and to be responsible for all assignments and materials. This is a difficult course and will cover a tremendous amount of material which will require hard work and discipline. You will need to keep up, as the pace of the class is fast and accelerates as we cover the last few chapters and get into consolidation and review. There are no quick, easy ways; what you learn here will be directly proportional to the amount of effort you have expended. You are expected to be considerate of the rights of others and not to interfere with those who are trying to study, work and learn.

***every effort will be made to adhere to the syllabus and grading rubric as written in this document, but the professor reserves the right to make changes as needed**

Miscellaneous:

1. You are expected to keep a complete and well-organized notebook of lecture notes, assignments, grades and other material covered in lecture or lab. This will not be collected or graded but will be for your benefit since it will provide your main source of information.
2. It is expected that problems that occur because you feel an error has been made, you disagree with what has been done, or feel that you have been treated unfairly will be brought to my immediate attention so they can be resolved.

3. There will be **no extra credit projects** for this course, since it is felt that your time will be better allocated in studying the assigned materials.
4. **Supplemental materials** may be used at your home or in the JCC Computer Labs. **The text's companion website** contains a variety of study aids. **ADAM Physiology Modules & Interactions** CDs (on various systems) should be available in the LRC (library at main campus).
5. Student **tutors** may be available on a need basis, at no cost to the student being tutored. Contact the Center for Student Success in Walker Hall (517-796-8415).
6. Students with disabilities who believe that they may need accommodations in this class are encouraged to contact the Center for Student Success as soon as possible to ensure that such accommodations are implemented in a timely fashion.
7. A student found cheating or plagiarizing will receive a score of zero on that exam or assignment, or a grade of 0.0 in the course. In addition, the Academic Deans will be informed of any such incident. JCC's Academic Honesty Policy is at: http://www.jccmi.edu/administration/deans/Policies/Academic_Honesty_Policy.doc

LABORATORY PROCEDURE: Lab is a very important learning component of this course. Cooperation with other students and the instructor in keeping the lab orderly and clean is expected. Please observe the following laboratory guidelines, and encourage your partners to do the same.

1. You are expected to read each week's lab write-up before arriving and understand what you will be doing.
2. Lab **assignments** and specific instructions will be given at the beginning of each lab period. You will be expected to complete all the assignments that require dissection or lab apparatus during this time. Assignments will be due at the start of the next lab period unless specifically indicated.
3. You will return all materials, apparatus, and reference books to their proper place at the end of the lab period. Apparatus that has been used should be washed with tap water and blotted dry with paper towels. Please leave materials neatly arranged; all members of each working group will be held responsible for the condition and return of the lab materials.
4. **Consult** with other members of the class and the instructor concerning any part of your work. Cooperation and consultation are encouraged; however, make certain that you completely understand everything since you will be held individually accountable for all materials covered. **In addition, all answers to lab questions are to be written in your own words** – not copied from a lab partner, from the text or from an online resource (all of which are violations of the academic honesty policy).
5. Disruptive behavior and loud conversations will not be permitted. Do not disturb others who are working.
6. You are free to leave the lab when you have completed the assigned materials.

Associate Degree Outcomes (ADOs) for BIO 254

ADO 2 - SCIENTIFIC REASONING

Describe issues raised by scientific advancements in physiology for modern society. Assessed by term paper.
Define scientific terminology and explains basic principles, concepts, and theories of the discipline. Assessed by: pretest/post test and selected exams.

ADO 7 – CRITICAL THINKING

Demonstrate critical thinking through questioning sources. Assessed by term paper.
Interpreting/ analyzing/evaluating clinical information in relation to physiological processes and using factual knowledge to solve clinical problems. Assessed by case studies and physiology lab exercises.