

HUMAN ANATOMY & PHYSIOLOGY II SYLLABUS - BIOLOGY 254 – ONLINE/HYBRID

Course Description: This is the second course of a two semester course sequence in which students study the anatomy and physiology of the human body. The course includes the autonomic nervous system, sensory, motor, and integrative systems, special senses, endocrine system, cardiovascular systems, lymphatic system and immunity, respiratory systems, digestive system, metabolism and nutrition, urinary system and reproductive systems. This course includes a laboratory component in which students are responsible for performing dissections and making original observations on dissected material. The laboratory experience culminates with the use of a plastinated human specimen for observation. Because physiological processes are based on the principles of chemistry, prior chemistry coursework is strongly recommended for this course. **Prerequisite: BIOLOGY 253**

On site dates: For this course, you will be required to come to central campus **each week** on designated days and times for labs and/or examinations. On site days are specific dates, listed on **the coursesite**.

A caution from your instructor: Online courses cover the same amount and level of content as "face-to-face" courses. Students taking this course online find that it requires **more time** than when it is taken in the traditional format. Remember that this is a lab science course so should be thought of as two courses. **It is not recommended for students who have not had a previous online course.** Students earning a final grade of 3.0 or higher report studying **at least 20 hours per week for this one course**. Please plan accordingly when considering this course.

Instructor: Jan Bradford Phone (517) 796-8648 Email: jbradford@jccmi.edu (*best to reach me)	Office: JM 110 Hours: M.8:30-9am, 11-12; T.8:30-9am, 12-12:30pm; W.8-8:30am, 11:30am-12:00; Th/F. Online office hours. Others by appointment.
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Feedback Timeframes: To the best of my ability, email replies to coursework questions will be sent between 8AM on Mondays and noon on Thursdays, within 24 hours of message receipt from a student.

Technical Support: For technical difficulties, try using the Help Forum to get help from classmates. Or you can contact the distance learning / information technology office.

Texts and Materials:

Required:

PRINCIPLES OF ANATOMY AND PHYSIOLOGY, Tortora & Derrickson; 14th edition [ISBN: 9781118866306]
Lab Manual for Anatomy & Physiology I, Visser & Bradford; 1st edition [ISBN: 978-1-4652-7483-0]
Anatomy and Physiology II Coursepack - Bradford sections; from the JC Bookstore

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

(Approximate total = 830 points)

Chapter Exams (5 @ 80 pts. each; 80 questions in 50 minutes)

Online Terminology Quizzes (10 best of 14; @5 pts. each; 50 pts. total)

Lab Practicals (3 @ 60-80 pts. each)

Research Paper (40 pts.)

Take Home Quizzes (5 @ 5 pts. each)

Lab Participation Points (30 pts.) [*See explanation; Lab Procedure below.]

Lab Hand-Ins (7 @ 10 pts. each)

[Possible Minimal Point Assignments; typically 5 points each]

Grading scale: [You will be expected to keep a record of your grades. Grades will be posted on our course-site.]

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%

Absence Policy: You are responsible for all assignments, handouts and materials covered in theory and in lab exercises. Make-up opportunities for the exams and/or practicals are extended only in the case of emergencies / hospitalization / funerals and require written documentation verifying the cause of the absence. It is your responsibility to contact your instructor for arrangements. **Second and subsequent make- up exams will be awarded only 80% of the achieved score. Practicals may not be made up unless you can take the practical with another lab section. In the event of a missed practical, you may either take a zero for the score, or take an incomplete for the course, and make up the practical the next semester that BIO 254 is offered.**

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; that will require hard work and discipline. You will need to keep up, as the pace of the class is fast, and it will pick-up 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're also expected to be considerate of the rights of others and not to interfere with those who are trying to study, work and learn.

Miscellaneous:

- * **No phone nor camera usage during any class times; no exceptions unless instructor directs use.**
- * No materials will be used during examinations of any kind, except those provided by your instructor. **No electronic devices are allowed during the entire examination period.** You will need a #2 pencil for examinations.
- * An exam score curve (or linear addition) MAY be used for each exam. The curve is a privilege.
- * It is expected that problems that occur because you feel an error has been made, or disagree with what has been done, or feel that you have been treated unfairly, will be brought to my immediate attention so that they can be resolved.
- * 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.
- * Supplemental materials may be used at your home or in the JC Computer Labs. **The text's companion website** is available -- see instructions in your text.
- * Tutors and additional free services for academic success are available at the Center for Student Success. CSS will help you with writing, study skills, test anxiety, math and reading.
- * Students with documented disabilities who believe they may need accommodations should contact the Center for Student Success as soon as possible to ensure that accommodations are implemented in a timely fashion.
- * A student found cheating or plagiarizing information will either receive a score of zero on that particular exam or assignment, or a grade of 0.0 in the course. In addition, the Academic Deans will be informed of any such incident. The JC Academic Honesty Policy is at: http://www.jccmi.edu/administration/deans/Policies/Academic_Honesty_Policy.doc

LABORATORY PROCEDURE: The lab period is a time of active learning involving the study of various materials, interactive projects, and other activities to enhance class success. Interaction with, and learning from, other members of the class and the instructor are critical parts of the lab environment. 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 so you can understand what you will be doing. To help "pull things together" you will have 2-3 questions to answer before each lab begins. Completion of these questions will count toward your lab participation points (described below).
2. 30 points of your final grade will be based on your attitude and effort in lab. Any lab missed or not worked on conscientiously, in excess of one, will result in a loss of 3 points per lab session. It is your responsibility to make sure that your name is on the sign-in sheet each week. Each week you are expected to thoughtfully respond to that week's assignment if given. Failure to do any of these things will result in a loss of points. Additionally you are expected to post in the help forums when you have questions, read questions posted by your classmates and offer assistance when you know how to help.

3. Specific instructions for each activity 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.
4. 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.
5. 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).
6. Disruptive behavior and loud conversations will not be permitted. Do not disturb others who are working.
7. Expect to work the entire allotted class period.
8. Any information covered in lab is "fair game" for both the lab practical exams and class/chapter exams. Lab practicals, however, are limited to information on the lab practical lists.
9. Use of the human cadaver mandates a requirement to sign the **LEARNING CONTRACT** prior to participation of any kind. This contract will require reading and acceptance of: the Human Specimen Respect Policy and the "Anatomy and Physiology Lab Rules." These can be found on the course JetNet site. [BIO 254 students will not be dissecting nor working extensively with the human specimen. Instructor demonstration of the specimen will be part of the course.]

Course Design - Online/Hybrid Anatomy and Physiology II

This course has two major components: "theory" (analogous to a traditional class lecture curriculum) and lab exercises (at campus; see the lab manual by Visser and Bradford). For the majority of the semester you will work at your distance learning site (home, etc.); and **EACH WEEK** during the semester you will come to Jackson College - central campus at the designated dates and times. Read the following descriptions for the theory portion, lab exercise portion and central campus visits.

THEORY DESCRIPTION

Preview by: Reading objectives at the start of each section of a chapter in your text book; and completing the assigned terminology quizzes on our course-site.

Learn by: Filling in information on your Anatomy & Physiology Outline using your Tortora & Derrickson text. Compare your notes to the notes provided by your instructor on the course site. Committing that material to memory by rehearsal and repetition. Activities on the companion website and in the text will enhance learning.

Self-assess by: Activities, quizzes and tutorials at the companion website and in the text.

Graded by: Terminology Quizzes, Take Home Quizzes, Paper, possible other Minimal Homework, and **Five** on-campus CHAPTER EXAMINATIONS.

LABORATORY (LAB) EXERCISES DESCRIPTION

Learn by: Assigned lab exercises in the schedule. You can solidify your knowledge at any time using the online images or diagrams in your Tortora/Derrickson text. Pay particular attention to the lab practical lists when preparing for the lab practicals. Study the images loaded onto the course site of lab images. Make use of the screen-casts on your instructor's web page. These images are of the actual materials you will be tested on when coming to central campus for the practicals. It is on these days where you need to come prepared expecting to transfer what you have learned from two-dimensional images to an understanding/knowledge of three-dimensional objects. At times, you can go to external links to find good lab images to study - but remember another instructor's list of items to know may not match ours!

Graded by: On-site PRACTICAL EXAMINATIONS, Lab Hand-In assignments, and Participation Points

CENTRAL CAMPUS VISITS

EACH WEEK in the semester you will be required to come to central campus on the designated days and times to complete: chapter exams, lab activities, lab practicals and clean up.

On-Site Schedule: When a Chapter Examination or Lab Practical Examination is scheduled, these will occur in the first hour. Following, lab study will solidify knowledge of items to learn for the lab portion of the course.

Associate Degree Outcomes (ADOs) & Educational Objectives

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.

Anatomy & Physiology Learning Contract

Your instructor will give you a learning contract to fill out and return.

Due before the end of the semester's second week. Failure to hand in will result in an instructor initiated withdrawal.