

HUMAN ANATOMY & PHYSIOLOGY II SYLLABUS - BIOLOGY 254 – lecture/lab

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**

A caution from your instructor: 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. 4:30-5:30; T. 8:30-9am; W.1:30-3:30pm; Online office hours M/Th/F. 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 contact the distance learning office / information technology department.

Texts and Materials:

Required:

[Text available in digital format.]

PRINCIPLES OF ANATOMY AND PHYSIOLOGY, Tortora & Derrickson; 14th edition [ISBN: 9781118866306]

– Other A&P textbooks for a full-year class (25-29 chapters) are acceptable (e.g. Martini, Marieb, Patton, Saladin or Seeley). (There is an online A&P text available at www.openstax.com; it is missing some information for the beginning of BIO 254.)

Lab Manual for Anatomy & Physiology I, Visser & Bradford; [from JC Bookstore]

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 = 850 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 (8 @ 10 pts. each)

[Possible Minimal Point Assignments; typically 5-10 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 both lecture and lab. 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 can be accessed at the Center for Student Success. Faculty and tutors in the 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 understand what you will be doing. To facilitate learning, 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.
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, & 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. You are free to leave the lab when you have completed the assigned materials.
 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.]
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General Education Outcomes (GEOs) & Educational Objectives for BIO 254 [Previous were ADOs.]

The Board of Trustees has determined that all JC graduates should develop or enhance certain essential skills while enrolled in the college. The General Education Outcome for Bio 254 is: GEO 4 (Scientific Reasoning).

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.**

BIO 254: Anatomy & Physiology II - F17 SCHEDULE

Lecture MW 5:30-6:53 pm in JM 219

[Mon. 7-8:50pm Lab Section 01]
[Wed. 3:30-5:20 pm Lab Section 02]

Week	Date Week of Monday...	Chapter Study & Exams	This Week's Lab [at JM 101]
1	Sept.4 (no class 9/4)	Ch. 16 Online Pre-Test	Introduction to BIO 254 – Success strategies
2	Sept.11	Ch. 16, 17 <i>Learning Contract Due</i>	Sensory Pathways
3	Sept.18	Ch. 15, 18	Special Senses <i>[Note for study: models of ear, eye, brain in CSS/ATC] Sensory Pathways Due</i>
4	Sept.25	EXAM 1 (Ch. 15 - 17) Ch. 18, 19	Endocrine System I (Endo. Review; 1 st case) <i>Special Senses Due</i>
5	Oct.2	Ch. 19, 22	Endocrine System II & LP review <i>Endocrine System Due</i>
6	Oct.9	Ch. 20 (EXAM MOVED TO NEXT WEEK DUE TO PRACTICAL)	LAB PRACTICAL EXAM 1 (60 pts) Blood Exercise (<i>Due at lab</i>)
7	Oct.16	EXAM 2 (Ch. 18, 19, 22) Ch. 20, 21	Cardiovascular System (<i>Due at lab</i>)
8	Oct.23	Ch. 21, 23	Thoracic Cavity
9	Oct.30	Ch. 23, 24 EXAM 3 (Ch. 20, 21, 23)	Respiratory System (<i>Due at lab</i>)
10	Nov.6	Ch. 24, 25	Metabolism
11	Nov.13	Ch. 25, 27	LAB PRACTICAL EXAM 2 (80 pts) <i>(Metabolism Due at lab)*</i>
12	Nov.20	EXAM 4 (Ch. 24, 25, 27) Ch. 26	No Lab 22-25 Thanksgiving Break
13	Nov.27	Ch. 26, 28 Research Paper Due! (M)	Abdominal Cavity
14	Dec.4	Ch. 28, 29	Urinary System (<i>Due at lab</i>)*
15	Dec.11	Ch. 29	Reproductive System and Review
EXAMS	Dec.18	EXAM 5 (Ch. 26, 28, 29) Connections Due Post-Test	LAB PRACTICAL EXAM 3 (80 pts) <- (<i>last exam date TBA</i>) (<i>JC classes end 21st</i>)

- Exam / Practical dates subject to change (but not likely)
- Complete your reading/study of the chapters by these exam dates
- **Chapter Vocabulary Quiz** due dates are listed and to be completed on the online course-site. Complete these ahead of schedule to avoid loss of opportunity due to technical difficulty. Plan ahead. No make ups. They close at the due date/time.
- **Lab Hand-Ins** will be due at the end of lab or by the next lab period, depending on the lab. (10 pts each)
- **Take Home Quizzes** are due at the start of each Exam. (5 pts each)
- Labs, and Lab Practicals all take place at Central Campus, JM 101
- No video / no photography in class at any time.