

Syllabus for Biology 2302 – Human Anatomy and Physiology II

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1. Course Description

Human Anatomy and Physiology II is a study of various organ systems of the human body including: cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems. Emphasis is on understanding the physiology of negative and positive feedback mechanisms associated with these organ systems.

2. Prerequisites

Students must have successfully completed BIOL 2301- (A&P 1) at an accredited college. Certain EMS or medical work experiences may be substituted to fulfill this requirement.

See your instructor today if you have not successfully completed BIOL 2301 (A&P I).

3. Course Goals

The following are the student learning outcomes:

1. Students will demonstrate knowledge of the cardio-vascular system and control, including: blood, circulation, tissue perfusion and capillary exchange, cardiac muscle fibers, the intrinsic conduction system, and circulation through the heart.
2. Students will demonstrate knowledge of the roles of various cells and chemical substances involved in our nonspecific and specific defense responses.
3. Students will demonstrate knowledge of the anatomy and functions of the components of the respiratory system.
4. Students will demonstrate knowledge of the respiratory system, including: pulmonary ventilation, gas transport, internal respiration, and respiratory control.
5. Students will demonstrate knowledge of the anatomy and functions of the gastro-intestinal tract.
6. Students will demonstrate knowledge of the anatomy and functions of the urinary system including detailed functions of each segment of the nephron.
7. Students will demonstrate knowledge of the principles of pH, acids and bases, as well as the three methods (chemical buffers, respiratory adjustments, & renal adjustments) by which the body tries to maintain proper pH of ECF.
8. Students will demonstrate knowledge of fluid and electrolyte balance, including: pH imbalances causes and cures, interpretation of ABG's, fluid compartments and shifts, and feedback and control mechanisms.
9. Students will demonstrate knowledge of the anatomy and functions of male and female reproductive organs.
10. Students will demonstrate knowledge of the reproductive system, including the hormonal controls of the ovarian and menstrual cycles, and pregnancy and childbirth

4. Textbook and other materials for course

Required: Human Anatomy & Physiology, Marieb & Hoehn, Pearson Publisher, 10th Ed., ISBN 978-0-321-92704-0. You will need text for lecture and lab

Required course materials are available at the Brazosport College bookstore, on campus or online at <http://www.brazosport.edu/bookstore>. A student of this institution is not under any obligation to purchase a textbook from the college bookstore. The same textbook is/may also be available from an independent retailer, including an online retailer

Lecture material [brazosport.edu/Campus Directory/Dufilho/A&P 2](http://brazosport.edu/CampusDirectory/Dufilho/A&P2)

5. Students with Disabilities

Brazosport College is committed to providing equal education opportunities to every student. Brazosport College offers services for individuals with special needs and capabilities including counseling, tutoring, equipment, and software to assist students with special needs. Please contact Special Populations Counselor, 979-230-3236 for further information.

6. Academic Honesty

Brazosport College assumes that students eligible to perform on the college level are familiar with the ordinary rules governing proper conduct including academic honesty. The principle of academic honesty is that all work presented by you is yours alone. Academic dishonesty including, but not limited to, cheating, plagiarism, and collusion shall be treated appropriately. Please refer to the Brazosport College Student Guide for more information. This is available online at <http://www.brazosport.edu>. Click on the CATALOGS AND SCHEDULES link under STUDENTS.

Academic dishonesty violates both the policies of this course and the Student Code of Conduct. In this class, any occurrence of academic dishonesty will be referred to the Dean of Student Services for prompt adjudication, and will, at a minimum, **result in an F in this course**. Sanctions may be imposed beyond your grade in this course by the Dean of Student Services.

7. Attendance and Withdrawal Policies

The Brazosport College Life Sciences Department believes attendance is critical for the comprehension of material. Instructor will take attendance in Lecture. **The student is responsible for officially withdrawing from the course.** To officially withdraw from the course, students must complete and sign a withdrawal form, available in the Registrar's Office.

8. Course Requirements and Grading Policy

Some topics are best addressed in a lecture setting while others are more suited for lab. In general, the emphasis in lecture is on physiology while the emphasis in lab is on anatomy. But, the two are not completely separable. Instructor lectures are in Power Point format and are on the college website [brazosport.edu/Campus Directory/Dufilho/A&P 2](http://www.brazosport.edu/CampusDirectory/Dufilho/A&P2) if you choose to print them out. They are not all inclusive and will not cover all of the material in lecture. You are strongly encouraged to take notes. You must read and study the textbook.

There are typically 5 lecture exams and a mandatory final exam, weighted equally. Each is worth 100 points. In general, lecture exams test your knowledge of the topics covered in lecture. **You must take lecture exams during your scheduled lecture time unless advanced arrangements are made.** There may be optional assignments throughout the semester.

A straight grading scale will be used:

- A - 90% and above
- B - 80% - 89%
- C - 70% - 79%
- D - 60% - 69%
- F - below 59%

See Appendix A at end of the syllabus for document to calculate your grade.

9. Testing

If you miss one of the five lecture exams or want to replace a low score on a lecture exam, the comprehensive final exam will count double and will serve as a "makeup" to replace the missing score or lower exam score

The Comprehensive Final Exam in Lecture is Mandatory.

If you miss more than one lecture exam only one score can be replaced. The other(s) will remain as zeros. You should most likely withdraw from the course and retake it another semester.

Major Exams

- 60 – 80% multiple choice questions
- 20 – 40% essays – see list of possible essays for each exam
- Up to 10 points on each exam for attendance/participation in SI Exam sessions – 1 point for 1 hour session and 2 points for a two hour session
 - **You are responsible for signing in at each session and your attendance is recorded. Those attendance sheets will be given to me. No signature, no credit.**

10. Make-up policy

There are no makeup lecture exams.

11. Student Responsibilities

Students are expected to fully participate in the course. The following criteria are intended to assist you in being successful in this course.

- a. Understand the Syllabus Requirements
- b. Use appropriate time management skills
- c. Communicate with your instructor
- d. Complete course work on time
- e. Utilize online components as required
- f. Print materials from web as needed

12. Projects, Assignments, Portfolios, Service Learning, Internships, etc.

There will be special projects and assignments. The requirements will be listed in a separate document.

13. Other Student Services Information

- Information about the Library is available at <http://www.brazosport.edu/~lib/Information.htm> or by calling 979-230-3310.
- Information about study skills and tutoring for math, reading, writing, biology, chemistry, and other subjects is available in the Learning Assistance Center (LAC), see www.brazosport.edu/~lac or call 979-230-3253.
- To contact the Life Sciences Department call 979-230-3225.
- The Student Services provides assistance in the following:
 - Counseling and Advising 979-230-3040
 - Financial Aid 979-230-3294
 - Student Activities 979-230-3355.
- To reach the Information Technology Department for computer, email, or other technical assistance call the helpdesk at 979-230-3266.



Get the information you need – when you need it. Click <http://geni.us/BRAZO> to install **BC Connect** on your mobile device to receive reminders, explore careers, map your educational plan, be in the know about events, find out about scholarships, achieve your goals and much more.

Tracking My Grades throughout the Semester

(Write down your grades for each Exam as you receive them back. Why? Because if you ask me what your grade is, or where you stand grade-wise, anytime during the semester, I will refer you to this worksheet.)

GRADED LECTURE ACTIVITIES (in **chronological** order)

ACTIVITY	POINTS	% OF COURSE GRADE	YOUR SCORE
Exam 1	100	16.7%	
Exam 2	100	16.7%	
Exam 3	100	16.7%	
Exam 4	100	16.7%	
Exam 5	100	16.7%	
Extra Credit			
Special Assignments			
*Final	*100 (200)	16.7%	
TOTAL	600	100%	

* The Final **replaces the lowest scoring semester Exam**, and can therefore provide up to 200 course points. If you Final score is less than your lowest scoring semester Exam, it simply provides up to 100 course points.

FIGURING OUT MY GRADE AT ANY TIME DURING THE SEMESTER:

1. Add the *points you've received* thus far.
2. Divide by the *total points available* thus far.
3. Multiple by 100 to get your current percentage.

FIGURING OUT MY OVERALL COURSE GRADE:

1. Add up all the points you've earned during the semester.
2. Divide by the course point total.
3. Multiple by 100 to get your overall percentage.
4. Determine your grade by comparing to this grading scale:

Percentage of points earned	Letter grade
90-100%	A
80-89%	B
70-79%	C
60-69%	D
59% or less	F

****C is passing for transfer of credits & degrees**

****D is passing at Brazosport College**