

## 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 I) 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, 9<sup>th</sup> Ed., 2013, by Marieb and Hoehn. "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."

**Optional & Recommended:** Encyclopedia & Dictionary of Medicine, Nursing, and Allied Health, by Miller-Keane. This is a useful source for terminology definitions as well as for the causes, signs & symptoms, and treatments of many diseases and disorders.

**CD Rom – Interactive Physiology.** This CD comes with your text and is full of great tutorial animation clips, explanations, and practice quizzes.

### 5. Students with Disabilities

Brazosport College is committed to providing equal education opportunities to every student. BC offers services for individuals with special needs and capabilities including counseling, tutoring, equipment, and software to assist students with special needs. Please contact Phil Robertson, 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 0 on the exam or assignment**. 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

Requirement	Individual points	Total points
5 exams	5 x 150 points	750 points
3 group case studies	3 x 50	150 points
1 presentation	1 x 50	50 points
1 research paper	150 points	150 points
Final exam	300 points	300 points
<b>TOTAL FOR CLASS</b>		<b>1400 points</b>

## 9. Testing

There are 5 scheduled exams (see exam schedule handout) and a mandatory comprehensive final exam. Exams are a combination of multiple choice, matching, true/false, figure identification, short answer and essay.

## 10. Make-up policy

**There are no makeup lecture exams.** If you miss an exam for any reason you can use a class notebook to make up for the missed points. The notebook will not count for the final exam.

**Requirements of notebook:** Must be organized by chapter, any missing or incomplete chapter will not count towards your points.

1. Power Point notes

2. Chapter fill ins complete

3. Chapter questions complete

4. Chapter handouts complete

## 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.

- Understand the Syllabus Requirements
- Use appropriate time management skills
- Communicate with your instructor
- Complete course work on time
- Utilize online components as required
- 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. These will include but are not limited to...group case studies, presentations, and a research paper.

## 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](http://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.

## 14. Participation policy:

This is College. You, your family member, or the government are paying \$\$\$ to learn this material. Thus, all students are expected to **fully participate** in this course every day we have lecture. Those who have **85%+ attendance in lecture** will receive **participation points** added to their final point total for the course that may result in an improved final grade (Ex: you've been to class nearly every day, I calculate your final grade after the class is done, you end at an 89.2, I'll give you the points to make your 90). **Plan to be in your seat five (5) minutes prior to class.** Depending on **class dynamics**, I reserve judgment on deciding the seating arrangement in lecture or lab.

## 15. Authority clause and Behavior policy:

You are all now considered adults, with all the rights, privileges, and responsibilities therein. The College and your instructor will assume that all of you know how to conduct yourself in a respectful, polite, and college-level appropriate behavioral manner. However, the lecture classroom is not a democracy - - it is instead an autocracy. By rank and position, your instructor retains all control over maintaining the classroom learning environment. Thus, disruptive behavior won't be tolerated in the slightest during lecture or lab. This includes, but is not limited to: excessive or loud conversations, inappropriate gestures, inappropriate or insulting conversational topics, bullying or demeaning other students or your instructor, challenging the authority of your instructor on grades, behavior, decisions, classroom and lab activities, or anything else that your instructor deems disruptive and distracting to the learning environment. Habitual or repeated disruptive behavior of any type **WILL** result in the loss of Course points at my discretion and may lead to withdrawal from the course at my discretion. In addition, habitual or repeated tardiness to class or lab will result in the loss of Course points at my discretion, and may lead to withdrawal from the course at my discretion.

## 16. Availability of your Instructor on Fridays, Weekends, or Holidays:

Unless indicated otherwise by your instructor during class, your instructor is not available by phone or email on Fridays – Weekends – or Holidays. Expect a return phone call or email reply from your instructor **ONLY** during standard business hours, Office hours, or hours listed on his Semester schedule posted for each class he teaches on the next business day. (<http://www.brazosport.edu/sites/CurrentStudents/Faculty/IsaiahSchauer/Pages/default.aspx>)

With regard to phone calls, your instructor only returns calls made by students who leave voicemail messages.

### 17. Electronic devices policy:

You may NOT use items of these types during class: Phones, pagers, personal MP3 players, portable DVD players, portable gaming devices, or any other type of portable entertainment device. Please turn off all devices or, at the very least, set them to vibrate. If your job/work/family situation requires you to keep a cell phone/pager with you on at all times, be sure to 1) talk with me during the 1st week of class, 2) send me an email stating why for record-keeping purposes, and 3) take any calls out in the hallway. You may use a laptop/tablet to take notes, however this privilege will be revoked if you are found using your device for any other purpose during my lecture even once. Feel free to utilize digital recording for lecture. I'm entirely comfortable stationing devices on my lecture podium for a higher quality recording. Re-listening to your lectures is a very effective study aid that will assist you in all of your coursework at the College level. If a phone or e-device goes off during lecture or lab: The device owner will lose 30 points from their total grade (except during the Week 1 grace period). If a device goes off during an Exam or Final: The device owner will lose 60 points from that Exam/Final score. (To be blunt, you will have just failed the test despite your preparation.)

Biology 2401 Class timeline	
August 24-September 9 <sup>th</sup>	Chapters 17-19
Exam 1 September 14 <sup>th</sup>	
September 16 <sup>th</sup> - September 30 <sup>th</sup>	Chapters 20 and 21
Exam 2 October 5 <sup>th</sup>	
October 7 <sup>th</sup> – October 24 <sup>th</sup>	Chapters 23 and 24
Exam 3 October 26 <sup>th</sup>	
October 28 <sup>th</sup> -November 11 <sup>th</sup>	Chapters 25 and 26
Exam 4 November 16 <sup>th</sup>	
November 18 <sup>th</sup> -November 30 <sup>th</sup>	Chapter 27
Exam 5 December 2 <sup>nd</sup>	
Final Exam December 9 <sup>th</sup>	Chapters 17-27