



# SYLLABUS

## BIOL 1054 Anatomy and Physiology I Fall 2019

**Instructor:** J. Keith Powell, PharmD.  
**Section # and CRN:** P10 (14489)/P90(14502)  
**Office Location:** E.E. Obanion Science Building, Suite 430C  
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**Office Hours:** Tuesday and Thursday 4:00-6:00p, and By appointment  
**Mode of Instruction:** Face to Face

**Course Location:** P10: Room 311, P90 : Room 311  
**Class Days & Times:** P10: T Th, 6:00-6:50 pm ; P90: T Th , 7:00-8:50 pm  
**Catalog Description:** An introductory course examining the organization of a human body and the mechanisms for maintaining homeostasis. Topics include chemistry of life, cell and tissue structure, metabolism, skeleton, muscular, nervous, endocrine, and integumentary system. Designed for students who will pursue a career in nursing.

**Prerequisites:**  
**Co-requisites:**

**Required Texts:** **Bundle**  
**Anatomy & Physiology (Saladin, 7th ed.)**  
**Anatomy & Physiology Lab**  
**On line access code (Connect)**

**Recommended Texts:**

**Student Learning Outcomes:**

	Upon successful completion of this course, students will be able to:	Program Learning Outcome # Alignment	Core Curriculum Outcome Alignment
1	Identify and summarize the steps of the scientific method and recognize their role in the context of a laboratory experiment	#1	Critical Thinking, Communication
2	List, identify, and classify the cellular organic macromolecules, specify the monomers for each, and explain their relevance to human structure and function.	#1	
3	Explain basic cellular functions such as protein synthesis, cellular respiration, DNA replication, and cell division.	#2, #3	Communication
4	Recognize the anatomical structures, explain physiological functions, and recognize and explain the principle of homeostasis applied to the integumentary, nervous, endocrine, muscular and skeletal systems	#4	
5	Perform Oral and Written communication of biomedical terms	#5	Communication

	relative to the human body		
6	Collaboratively work through physiological case studies	#5	Teamwork
7	Demonstrate a critical understanding of biological physiological processes	#4	
8	Analyze quantitative and empirical biomedical datasets and graphs	#5	Empirical and Quantitative

## Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

**Exams** – Each lecture and laboratory exam will focus on measuring the students understanding of the physiological processes and anatomical structures of the human anatomy.

**Lecture:** Minimum of three lecture exams will be given during the semester. Exams will consist of multiple-choice and short answer questions. The exams will measure the student's ability to process anatomy and physiology lexicon, identify the structural similarities and differences, process physiological processes. In addition relate concepts to clinical application and communicate their thoughts in written format. **The lecture exams count for 40% of your grade.**

**Laboratory:** Minimum of three practical laboratory exams will be given during the semester. The practical examinations consist of identification of anatomical parts and physiological functions. Models and animal specimen will be utilized to test your knowledge of these systems.

**The laboratory exams accounts for 30% of your grade.**

### Learnsmarts

LearnSmart helps students succeed by providing a personalized learning path that's based on responses to questions (right or wrong), as well as how confident they feel about the answers they provide. The program also encourages the retention of the material by identifying concepts that students are likely to forget, and directing them back to portions of the e-book to help them solidify concepts.

**Exercises** – designed to supplement and reinforce course material.

Discuss scientific concepts on the chapter by using composition, labeling, classification, sequencing, true and false, matching and essay question.

**Biopac Laboratory Assignments:** Students are engaged in scientific inquiry by performing group analysis. The students will perform exercises targeting muscular function, brain function, ANS, exercise physiology and neurophysiology.

**Projects**---- assignments designed to measure ability to apply presented course materials.

### **Case studies/Biological Topic:**

Students will collaboratively engage an assigned scientific topic discussed in the course.

**Comprehensive Final Exam is given at the end of each semester. The final exam accounts for 20% of your grade. The final exam schedule is set by the University. See attached final exam schedule for exact date.**

**\*Do not schedule any activity during the final exam period (\*see above dates).**

**Critical Thinking, Empirical and Quantitative Core Assessment**

Reaction Time Biopac (Lesson 11) assignment will measure the students ability to observe the effects of learning and physiological process on reaction times. It will also measure their ability to compare reaction times with two presentation schedules: fixed intervals and pseudo-random interval datasets. Lastly, they will calculate statistics of group mean, variance and standard deviation. This assignment will be referenced against the Association of American College and Universities Empirical and Quantitative rubric.

**Teamwork, Oral and Written Communication**

Case Study/Scientific Topic Core Assessment will measure the student’s ability to research, analyze and communicate information for a given case study/scientific topic. Each student will be assigned to a group to discuss the requirements of the case study. Each member of the group will be responsible for a written portion of the case study and providing a part for the oral presentation. The topics will require students to research information and compare data. After which, they will collaboratively assemble an oral presentation using Prezi to be assessed by their peers and professor. This assignment will be referenced against the Association of American College and Universities Written and Oral communication rubric, Teamwork rubric and Peer Evaluation Rubric (Herreid, C.F., 2007).

Example of Scientific Topic is a comparison of Nervous system disorders the students will be responsible for knowing and communicating the history, effected population, discovery and treatment of the disorder.

**Grading Matrix**

Instrument	Value (points or percentages)	Total
Lecture Exams	3 Lecture exams at 100 points ea.	40%
Laboratory Practical Exams	3 Practical exams at 100 pts each	30%
Learnsmart	Quizzes	
Assignment (Online, Laboratory Assignments, Reaction Time, EOG, EEG Biopacs)	10 Assignments	10%
CASE-STUDY PRESENTATION	GROUP	
CASE-STUDY	Individual	
Comprehensive Final Exam	100 points	20%

Grade Determination:

A = 100 – 90pts;

B = 89 – 80pts;  
 C = 79 – 70pts;  
 D = 69 – 60pts;  
 F = 59pts or below

## Biology 1054 Lecture and Laboratory Schedule

<u>Week</u>	<u>Laboratory</u>	<u>Lecture</u>	<u>Online Assignments</u>
1	Syllabus/Register for Connect/ Human Body video	Pre-Test/Syllabus /Atlas A General Orientation to Human Anatomy	LearnSmart Chapter 1
	Safety Forms/ <i>BIOPAC Lesson 11</i>	Chapter 2 The Chemistry of Life	LearnSmart Chapter 2
2	Exercise 2 Organs, Systems and Organization( Review)	Chapter 2 The Chemistry of Life	Assignment 1 Chapters 1 and 2
	General Assembly	Chapter 3 Cellular Form and Function	Learnsmart Chapter 3
3	Exercise 3 Microscopy	Chapter 3 Cellular Form and Function	
	Exercise 4 Cell structure and Function	Chapter 4 Genetics and Cellular Function	Learnsmart Chapter 4 Assignment 2 Chapters 3 and 4
4	Exercise 6 Tissues	Chapter 4 Cellular Function	
	<b>Lab Exam I</b>	<b>Lecture Exam I (Atlas A,2,3,4)</b>	
5	Exercise 6 Tissues	Chapter 5 Histology	Learnsmart Chapter 5
	Exercise 6 Tissues	Chapter 5 Histology	Assignment 3 Chapters 4 and 5
6	Exercise 7	Chapter 6 Integumentary System	Learnsmart Chapter 6
	<b>(Histology &amp; Integumentary System)</b>		
7	Exercise 8 Skeletal system	Chapter 7,8 Bone Tissue and Skeletal System	Learnsmart Chapter 7,8
	Exercise 9,11	Chapter 7,8 Bone Tissue and Skeletal System	Assignment 4 Chapters 6,7,8
8	Exercise 10	Chapter 9 Joints	Learnsmart Chapter 9
	Exercise 14,15	<b>Midterm Lecture Exam (5,6,7,8,9)</b>	
9	<b>Lab Exam II</b>	Chapter 10 and 11 Muscular System and Muscular tissue	Assignment 5 Chapter 9
	Exercise 16,17	Cont. Chapter 10 Chapter 11	

10	BIOPAC EMG 1		Cont. Chapter 10 Chapter 11	Assignment 6 Chapter 10
	BIOPAC EMG 2		Cont. Chapter 10 Chapter 11	Learnsmart Chapter 10-11
11				
	Assignment 7 Chapter 12		Assignment 8 Chapter 13	
12	BIOPAC EEG 1		Chapter 12 Nervous Tissue Chapter 13 Spinal Cord, Spina Nerves, and Somatic Reflexes Chapter 14 Brain and Cranial Nerves Chapter 15 Autonomic Nerves System Chapter 16 Sense Organs	Learnsmart Chapter 12-16
	<b>LAB EXAM III</b>		<b>Lecture Exam III</b>	
13	Exercise 20,21,22		Cont. Chapter 12-16	Assignment 9 Chapter 14-16
14			Cont. Chapter 12-16	
15	<i>Case Studies</i>		<i>Case Studies</i>	
	<i>Case studies</i>		<b>Review Day</b>	
16	<b>Final Exams</b>		<b>Final Exams</b>	

## **Student Support and Success**

### **John B. Coleman Library**

The library and its partners have as their mission "to provide resources and instructional material in support of the evolving curriculum, as a partner in Prairie View A&M University's mission of teaching, research, and service" and to support the University's core values of "access and quality, diversity, leadership, relevance, and social responsibility" through emphasis on ten key areas of service. It maintains library collections and access both on campus, online, and through local agreements to further the educational goals of students and faculty.

### **Center for Academic Support**

The Center for Academic Support (CAS) offers Tutoring via peer tutoring. The services include workshops (i.e., Save My Semester, Recalculate Your Route), seminars (i.e., Tools You Can Use: TI-84), group review sessions (i.e., College Algebra Topic Reviews, GRE Preparation), group study opportunities (i.e., TSIA, HESI, Study Break, Exam Cram), and test-taking strategies (How to take Notes, Study Buddy, 5 Day Study Guide). The Tutoring Center is a nationally certified tutoring program through the National Tutoring Association. The peer tutors are trained and certified by the coordinator each semester. Location: J.B. Coleman Library

### **COMPASS**

The Center for the Oversight and Management of Personalized Academic Student Success (COMPASS) is designed to help Prairie View students in their second year and beyond navigate towards graduation by providing the following services: Academic Advisement, Targeted Tutorials for Personalized Learning, Campus-Wide Referrals, and Academic & Social Workshops. Location: J.B. Coleman Library

### **Writing Center**

The Writing Center provides student consultants on all aspects of the writing process and a variety of writing assignments. Writing Center consultations assist students in such areas as prewriting, brainstorming, audience awareness, organization, research, and citation. Location: Hilliard Hall 121

## **University Rules and Procedures**

### **Disability statement (See Student Handbook):**

Students with disabilities, including learning disabilities, who wish to request accommodations in class should register with the Services for Students with Disabilities (SSD) early in the semester so that appropriate arrangements may be made. In accordance with federal laws, a student requesting special accommodations must provide documentation of their disability to the SSD coordinator.

### **Academic misconduct (See Student Handbook):**

You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Handbook, especially the section on academic misconduct. Students who engage in academic misconduct are subject to university disciplinary procedures.

### **Forms of academic dishonesty:**

1. Cheating: deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not mastered; giving or receiving aid unauthorized by the instructor on assignments or examinations.
2. Academic misconduct: tampering with grades or taking part in obtaining or distributing any part of a scheduled test.
3. Fabrication: use of invented information or falsified research.
4. Plagiarism: unacknowledged quotation and/or paraphrase of someone else's words, ideas, or data as one's own in work submitted for credit. Failure to identify information or essays from the Internet and submitting them as one's own work also constitutes plagiarism.

### **Nonacademic misconduct (See Student Handbook)**

The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires campus conditions that do not impede their exercise. Campus behavior that interferes with either (1) the instructor's ability to conduct the class, (2) the inability of other students to profit from the instructional program, or (3) campus behavior that interferes with the rights of others will not be tolerated. An individual engaging in such disruptive behavior may be subject to disciplinary action. Such incidents will be adjudicated by the Dean of Students under nonacademic procedures.

**Sexual misconduct (See Student Handbook):**

Sexual harassment of students and employers at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating this policy will be subject to disciplinary action.

**Attendance Policy**

Prairie View A&M University requires regular class attendance. Excessive absences will result in lowered grades. Excessive absenteeism, whether excused or unexcused, may result in a student's course grade being reduced or in assignment of a grade of "F". Absences are accumulated beginning with the first day of class.

**Student Academic Appeals Process**

Authority and responsibility for assigning grades to students rests with the faculty. However, in those instances where students believe that miscommunication, errors, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

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## **TECHNICAL CONSIDERATIONS**

### **Minimum Recommended Hardware and Software:**

- Intel PC or Laptop with Windows 7; Mac with OS X; Smartphone or iPad/Tablet with Wi-Fi
- High speed Internet access
- 8 GB Memory
- Hard drive with 320 GB storage space
- 15" monitor, 800x600, color or 16 bit
- Sound card w/speakers
- Microphone and recording software
- Keyboard & mouse
- Most current version of Google Chrome, Safari, Internet Explorer or Firefox

**Note:** Be sure to enable Java & pop-ups

### **Participants should have a basic proficiency of the following computer skills:**

- Sending and receiving email
- A working knowledge of the Internet
- Proficiency in Microsoft Word (or a program convertible to Word)
- Proficiency in the Acrobat PDF Reader
- Basic knowledge of Windows or Mac O.S.

### **Netiquette (online etiquette):**

Students are expected to participate in all discussions and virtual classroom chats as directed. Students are to be respectful and courteous to others on discussions boards. Foul or abusive language will not be tolerated.

### **Technical Support:**

Students should go to <https://mypassword.pvamu.edu/> if they have password issues. The page will provide instructions for resetting passwords and contact information if login issues persist. For other technical questions regarding eCourses, call the Office of Distance Learning at 936-261-3283

### **Communication Expectations and Standards:**

Emails or discussion postings will receive a response from the instructor, usually in less than 48 hours. Urgent emails should be marked as such. Check regularly for responses.

### **Discussion Requirement:**

Online courses often require minimal to no face-to-face meetings. However, conversations about the readings, lectures, materials, and other aspects of the course can take place in a seminar fashion. This will be accomplished by the use of the discussion board. The exact use of discussion will be determined by the instructor.

**It is strongly suggested** that students type their discussion postings in a word processing application and save it to their PC or a removable drive before posting to the discussion board. This is important for two reasons: 1) If for some reason your discussion responses are lost in your online course, you will have another copy; 2) Grammatical errors can be greatly minimized by the use of the spell-and-grammar check functions in word processing applications. Once the post(s) have been typed and corrected in the word processing application, it should be copied and pasted to the discussion board.