PRAIRIE VIEW A&M UNIVERSITY

ANATOMY AND PHYSIOLOGY II LECTURE - 1064 - P03 (CRN: 12968);
ANATOMY AND PHYSIOLOGY II LABORATORY- BIOLOGY 1064 – P83 (CRN: 13057);
FALL SEMESTER – 2019

Instructor	Dr. Carla J. Whittaker
Section # and CRN	Anatomy & Physiology II 1064-P03/CRN: 12968 (Lecture) – Mondays and Wednesdays 4:30 pm – 5:20 pm; Anatomy and Physiology II 1064-P83/CRN 13057 (Laboratory) – Mondays and Wednesdays 5:30 pm – 7:20 pm
Office location	New Science Building 4th floor; Office 430-AC
Office Phone	936-261-3161
Email address	cjwhittaker@pvamu.edu
Office Hours	2:00 pm – 3:20 pm; Immediately after class; or by Appointment
Mode of Instruction	Face-to-Face
Course Location	New Science Building Room A103 (Lecture) – Mondays and Wednesdays; New Science Building Room 311 (Laboratory) – Mondays and Wednesdays

Catalog Description:

Anatomy and Physiology; (2-4) Credit semester hours each. The study of the structure and functions of the human body is explored. The structure of each of the organ systems will be demonstrated by models, charts, and some animal dissections with their functions studied by experiments. **Laboratory fee required**. ** (**BIOL 2401, 2402**)

Prerequisites: It is desirable to have successfully completed Biology 1054 before taking Biology 1064. You must exhibit an adequate understanding of associated scientific terminology and principles of general biology, and general chemical concepts.

Required Texts:
BIOL 1054/1064 ANATOMY AND PHYSIOLOGY Prairie View A & M University (with selected material from Anatomy and Physiology – The Unity of Form and Function, Eighth Edition, Kenneth S. Saladin) 2018, McGraw-Hill Education, New York, New York.

BIOL 1054/1064 LABORATORY MANUAL FOR ANATOMY AND PHYSIOLOGY Prairie View A & M University (with selected material from Saladin's Anatomy and Physiology – The Unity of Form and Function, Eighth Edition by Eric Wise) 2018, McGraw-Hill Education, New York, New York.

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Course Goals or Overview:

Students will use microscopes, microscope slides, diagrams, models, physiological processes and dissection of animal specimen during their study of the following body systems: cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive, and endocrine systems.

Goals	Upon successful completion of this course, students will be able to:	Program Learning Outline # Alignment	Core Curriculum Outcome Alignment
1	Identify the important anatomical structures in each of the stated organ systems.	#1	Critical Thinking, Communication
2	Demonstrate a critical understanding of all important physiological processes of the stated systems, as well as, fluid and electrolyte balance, nutrition, metabolism, pregnancy, human embryology, fetal development and human genetics.	#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 cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive systems.	#4	
5	Perform oral and written communication of biomedical terms relative to the human body.	#5	Communication
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	

Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.
Exams – written tests designed to measure knowledge of presented course material
Exercises – written assignments designed to supplement and reinforce course material
Projects – web development assignments designed to measure ability to apply presented course

materials.

Grading Matrix

Instrument	Value (points or percentages)	Total
Lecture exams	4 Lecture exams at 100 points each.	30%
Laboratory Practical Exams	4 Practical exams at 100 points each	30%
Class Participation: Lecture/Lab Quizzes, Lecture/ Laboratory Assignments (Including Online Assignments), BIOPAC Exercises	100 points each	10%
Laboratory Notebook	GROUP	5%
CASE STUDY PRESENTATION	GROUP (100 POINTS)	10%
Comprehensive Final Exam	100 points	15%

Grade Determination:

A = 100 – 90 points
B = 89 – 80 points
C = 79 – 70 points
D = 69 – 60 points
F = 59 points or below

Examinations
Lecture:

Four major lecture exams will be given during the semester. Exams will consist of 50 to 100 multiple-choice questions and essay questions. These exams will cover information covered in the lectures. Exams may consist of multiple choice, K-type (multiple-multiple choice), matching, diagrams, fill-in-the-blank, true-false, short answer and/or essay questions.

There will be no makeup exams for a missed lecture exam, except for documented emergencies. All make-up exams must be taken within two class days upon returning to class. All make-up exams will consist of essay questions and/or multiple choice, K-type (multiple-multiple choice), matching, diagrams, fill-in-the-blank, true-false, and short answer questions. Each student is responsible for the materials missed during an absence from class. Excused or unexcused absences do not release the student from obtaining the assignments that are missed during an absence. The dates of the lecture exams will be announced in class. **The lecture exams count for 30% of your grade.**

Laboratory:
Four major practical laboratory exams will be given during the semester. The practical examinations consist of identification of anatomical parts and physiological functions. Models, microscopic slides, and/or animal specimen will be utilized to test your knowledge of these systems. There will be no makeup exams for a missed lab exam, except in documented emergencies. All make-up exams must be taken within one week upon returning to class. **The dates of the laboratory exams will be announced in class. The laboratory exams count for 30% of your grade.**

Class Participation, Assignments (Lecture and Laboratory) and Quizzes:
Class participation: The following items will be used to assess the participation grade: Assignments (lecture, laboratory, online), quizzes (lecture/laboratory), and BIOPAC exercises.
On-line Assignments: Students will be responsible for answering a collection of questions that may include: discussing scientific concepts on the chapter by using composition, labeling, classification, sequencing, true/false, matching and essay question.

Biopac Laboratory Assignments: Students are engaged in scientific inquiry by performing in group data collection, analysis and write-ups. The students will perform exercises targeting the circulatory system, respiratory system, muscular function, brain function, ANS, exercise physiology and neurophysiology.

Quizzes: During the semester, quizzes may be given in the lecture and/or laboratory. Dates for the quizzes will be announced in class. Quizzes may be will be given at the beginning or end of the class. **Please arrive to class on time.** If you miss a quiz, your grade for that quiz is zero.

The grades for class participation, lecture/lab/on-line assignments, and quizzes will count 10% of your final grade.

Lab Notebook: (**This will count 5% of your grade**).
The lab notebook is a compilation of all notes and handouts presented in lecture and the laboratory.

Case studies: (This will count 10% of your grade).
Students will be required to write two case study reports. One report will be submitted as an individual report. The second report will be a collaborative (group) case study report. The topics for the case study reports should be about a disease or disorder that is related to an organ system that will be covered during the course. Information used to write the case study reports should be obtained from recent research articles or peer reviewed articles on the related topic covered in class. For both papers, there should be a minimum of four references cited in the body of the paper. Two of the articles may come from articles obtained from the internet. The remaining references may be obtained from scientific journals and science books. The report should be written in the MLA or CBE format. It must be written in your own words. Plagiarized reports will

receive a grade of zero. Reports should be typed and double spaced. The topics for the papers should be approved by the instructor. The individual report is due at the beginning of class on **Wednesday**, **October 9, 2019. Late papers will not be accepted!** The collaborative groups will present their case study reports orally in class. The written report of the group case study will be submitted at the time of the oral presentation. The dates for the oral presentation will be assigned in class.

Comprehensive Final Exam:
A comprehensive final examination will be given at the end of each semester. The grade on the final exam will account for 15% of the student's final grade for the course. **The final exam schedule is set by the University. *Do not schedule any activity during the final exam period.** The date of the final exam is tentatively scheduled for **December 4, 2019.** (Refer to the **Fall 2019 Final Exam Schedule**).

Exam Policy
Exams should be taken as scheduled. No makeup examinations will be allowed, unless the student has provided the instructor with the appropriate documentation for the absence/emergency. (See Student Handbook). **Each student must provide his/her own Scantron B during the lecture exams.**

COURSE CONTENT

Unit IV: REGULATION AND MAINTENANCE
Chapter 18: The Circulatory System: Blood
Chapter 19: The Circulatory System: The Heart
Chapter 20: The Circulatory System: Blood Vessels and Circulation **Exam I/Lab Exam I**

Chapter 21: The Lymphatic and Immune Systems
Chapter 22: The Respiratory System
Chapter 25: The Digestive System
Chapter 26: Nutrition and Metabolism
Exam II/Lab Exam II

Chapter 23: The Urinary System
Chapter 24: Water, Electrolyte, and Acid-Base Balance
Exam III/Lab III

Unit V: Reproduction and Development
Chapter 27: The Male Reproductive System
Chapter 28: The Female Reproductive System
Chapter 29: Human Development and Aging
Chapter 17: The Endocrine System
Exam IV/Lab IV

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BIOL 1064 Tentative Lecture and Laboratory Schedule

Week	Lecture	Laboratory
1	Class Orientation/ Syllabus/Pre-Test Chapter 18 – Circulatory System: Blood	Syllabus/Laboratory Safety Training/ Contracts/
2	Chapter 18 – Circulatory System: Blood Chapter 19 – Circulatory System: Heart	Lab Exercises 31, 33, 34
3	Chapter 19 – Circulatory System: Heart	Lab Exercises 32
	Chapter 20 – Circulatory System: Vessels and Circulation	BIOPAC Lesson 5 ECG Lab Exercises 35, 36
4	Chapter 21 – Lymphatic System	Lab Exercise 38, BIOPAC Lesson 16 – Blood Pressure
5	**Lecture Exam 1** (Chapter 18 – 20) **September 23, 2019**	**Laboratory Exam 1** **September 25, 2019**
6	Chapter 22 – Respiratory System	Lab Exercise 37; 39
	Chapter 25 – Digestive System Chapter 26 – Nutrition and Metabolism	***BIOPAC Lesson 12 Pulmonary Function I;*** Lab Exercise 42
7	**Lecture Exam 2** (Chapters 21, 22, 25, 26); **October 14, 2019**	**Laboratory Exam 2** **October 16, 2019**
8	Chapter 23 – Urinary System	Lab Exercise 40
9	Chapter 24 – Water, Electrolyte and Acid-Base Balance	Lab Exercise 44
10	**Lecture Exam 3** (Chapters 23, 24) **November 4, 2019**	**Laboratory Exam 3** **November 6, 2019**
11	Chapter 27 - Male Reproduction	Male Reproduction
12	Chapter 28 – Female Reproduction	Female Reproduction
	Chapter 29 – Human Development and Aging	Embryo Development
13	Chapter 17 – Endocrine System	Endocrine System; ***Case Studies – Group Presentations;***
14	**Lecture Exam 4** (Chapters 17,23, 24, 27, 28, 29); **November 25, 2019**	**Laboratory Exam 4;** **November 27, 2019** ***Case Studies – Group Presentations*;**
15	**Thanksgiving Holiday** **November 28 - 29, 2019**	
16	**Final Exam Review; (Last Class Day)** **December 2, 2019**	***Case Studies – Group Presentations***
	Final Exams (COMPREHENSIVE) **December 4, 2019**	

* **Items in italics will be used for assess for compliance in foundational core areas.**

(The above schedule is tentative and is subject to change. Any changes to the above schedule will be announced in class. Any changes in exam or lab exam dates will be announced in class.)

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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*.**

Absences on Religious Holy Days- In accordance with Texas education Code, section 61.003, subdivision (7), student may be absence from class for the observance of a religious holy day will be permitted to take missed examinations and complete missed assignments provided the student has notified the instructor of the planned absence in writing and receipt of notification has been acknowledged by the instructor in writing.
"A religious holy day means a holy day observed by a religion whose place of worship is exempt from property taxation under the Texas Tax Code, section 11.20"

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.

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

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Prairie View A & M Academic Calendar
Fall 2019

Aug 26 – Aug 30	Registration and Add/Drop Period. Tuition payment for all students who add/drop for Fall must pay by 5:00 pm on Wednesday, September 19, 2018.
Aug 26	Instruction Begins Monday
Sep 02	Labor Day Holiday (University Closed) Monday
Sep 11	12th Class Day (Census Date); Last day to withdraw from course(s) without academic record. Wednesday
Sep 12	Withdrawal from course(s) with academic record ("W") Begins Thursday
Sep 19	Tuition payment deadline is 5:00 pm for all students who late registered and add/drop for Fall semester. Wednesday
Sep 24	20th Class Day Monday
Sep 25 – Dec 04	Submit application for Tuition Rebate for fall graduation of undergraduate candidates Tuesday - Tuesday
Oct 17 – Oct 19	Mid-Semester Examination Period Thursday through Saturday
Oct 22	Mid-Semester Grades Due Tuesday
Oct 31	Final day to Apply for Fall 2019 graduation (ceremony participation) Thursday
Nov 01	Final Day to Withdraw from Course(s) with Academic Record (W) Friday
Nov 01	Application for Graduation-Degree Conferral only for Fall 2019 Graduation Begins (no ceremony participation or name listed in the program)

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Nov 01	Final Day for withdrawal from Course(s) with academic record ("W") Fall 2019 16-week session Friday
Nov 11	Priority Registration for continuing students for Spring and Summer semesters Monday
Nov 18	Pre-registration for all students for the Spring and Summer semesters Monday
Nov 22 – Nov 24	Thanksgiving Holidays (University closed)
Dec 02- Dec 03	Course Review Days (Classes must convene and instructors will prepare students for final exams) Monday through Tuesday
Dec 03	Final Day to Apply for Degree Conferral only for Fall 2019 Graduation (no ceremony participation or name listed in the program) Tuesday
Dec 03	Last Class Day Tuesday
Dec 03	Final Day to Submit Application for Tuition Rebate for Fall Graduation 2019 Undergraduate Candidates) Tuesday
Dec 03	Final Day to Withdraw from the University (from al courses) for the Fall 2019 16-week Semester Tuesday
Dec 04 – Dec 10	Final Examinations Wednesday through Tuesday
Dec 12	Final Grades due for Graduation Candidates (12:00 p.m.) – Fall 2019 16-week session Thursday
Dec 14	Fall Commencement Saturday
Dec 17	Final grades due for all other students (11:59 p.m.) Tuesday

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TENTATIVE FINAL EXAM SCHEDULE

EXAM TIMES	Wednesday December 5	Thursday December 6	Friday December 7	Saturday December 9	Monday December 10	Tuesday December 11
8:00am–10:00am	M-W-F 8:00 am	TU-THUR 8:00 am	M-W-F 9:00 am	SAT 8:00 am	M-W-F 10:00 am	TU-THUR 9:30 am
10:30am – 12:30pm	M-W-F 11:00 am	TU-THUR 11:00 am	M-W-F 1 2:00 pm	SAT 11:00 am	M-W-F 1:00 pm	TU-THUR 12:30 pm
1:30pm–3:30pm	M-W-F 2:00 pm	TU-THUR 2:00 pm	M-W-F 3:00 pm	SAT 2:00 pm	M-W-F 4:00 pm	TU-THUR 3:30 pm
4:00pm–6:00pm	M-W-F 5:00 pm	TU-THUR 5:00 pm	M-W-F 6:00 pm	COMMON EXAM	COMMON EXAM	COMMON EXAM
6:30pm–8:30pm	COMMON EXAM	COMMON EXAM	COMMON EXAM	COMMON EXAM	COMMON EXAM	COMMON EXAM

NOTES:
1. All NROTC and AROTC examinations will be scheduled by the professors of NROTC and AROTC during this final exam period.
2. All HEALTH AND HUMAN PERFORMANCE practice examinations will be scheduled by the head of the Department of Health and Human Performance during this final exam period.
3. Instructors should contact the Office of the Registrar, as soon as possible at the beginning of the semester, to schedule rooms for COMMON EXAMS.
4. Final Exam schedules for 8 week sessions will follow the Academic Calendar