



**ANATOMY AND PHYSIOLOGY II LECTURE – 1064 - P02 (CRN: 30548);
ANATOMY AND PHYSIOLOGY II LABORATORY- BIOLOGY 1064 - P62 (CRN: 30549);
SUMMER I 2016**

Instructor	Dr. Carla J. Whittaker
Section # and CRN	Anatomy & Physiology I -1064-PO2/ 30548 (Lecture); Anatomy and Physiology I – 1064-P62/30349 (Laboratory)
Office location	New Science Building 4 th floor
Office Phone	936-261-3161
Email address	cjwhittaker@pvamu.edu
Office Hours	Monday – Thursday 2:00 PM – 2:45 PM; immediately after class; or by Appointment
Mode of Instruction	Face-to-Face
Course Location	New Science Building 103 (Lecture); New Science Building 309 (Laboratory)

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 Anatomy and Physiology – The Unity of Form and Function, Ninth Edition, Kenneth S. Saladin) 2016, The McGraw-Hill Companies, Inc., Boston, Massachusetts.

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, Ninth Edition, Eric Wise) 2016, The McGraw-Hill Companies, Boston, Massachusetts.



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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.
At the end of this course, the student will	
<ol style="list-style-type: none"> 1. Identify the important anatomical structures in each of the stated body systems. 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. 3. Analytical interpretation of biomedical related datasets. 4. Describe the interrelationships between anatomy and physiology in each of the organ systems listed. 5. Explain the principle of homeostasis and the primary control mechanisms that operate in each of the organ systems listed. 6. Demonstrate and appreciate how the organ systems interact to maintain homeostasis in the human body. 7. Perform oral and written communication of biomedical terms relative to the human body. 8. Collaboratively work through physiological case studies. 9. Develop independent learning skills, such as active learning and problem solving. 	

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%



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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:

At least 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 be essay exams. 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 lecture exams count for 30% of your grade.**

Laboratory:

At least 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 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, and laboratory notebook. **On-line Assignments:** will be answering a collection of questions 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 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 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.



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Lab Notebook:

A compilation of all notes and handouts presented in lecture and the laboratory. **This will count 5% of your grade.**

Case studies:

Students will collaboratively engage an assigned scientific topic discussed in the course. The group is expected to written and oral presentation of their case study to the class on the assigned day. **This will count 10% of your grade.**

Comprehensive Final Exam is given at the end of each semester. The final exam accounts for 15% of your grade. The final exam schedule is set by the University. *Do not schedule any activity during the final exam period .

Exam Policy

Exams should be taken as scheduled. No makeup examinations will be allowed except under documented emergencies (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/
	Chapter 19 – Circulatory System: Heart	Lab Exercise 31, 33, 34, 35, 36; BIOPAC Lesson 5 ECG
	Chapter 20 – Circulatory System: Vessels and Circulation	Lab Exercise 32, Exercise 35, 36; Dissection
	Lecture Exam 1 (Chapter 18 – 20)	Laboratory Exam 1
2	Chapter 21 – Lymphatic System	Lab Exercise 38, BIOPAC Lesson 16 – Blood Pressure
	Chapter 22 – Respiratory System	Lab Exercise 37, 39 <i>* BIOPAC Lesson 12 Pulmonary Function I</i>
	Chapter 25 – Digestive System	Lab Exercise 42
	Chapter 26 – Nutrition and Metabolism	Lab Exercise 42
	Lecture Exam 2 (Chapters 21, 22, 25, 26)	Laboratory Exam 2
3	Chapter 23 – Urinary System	Lab Exercise 40
	Chapter 24 – Water, Electrolyte and Acid-Base Balance	Lab Exercise 44
	Lecture Exam 3 (Chapters 23, 24)	Laboratory Exam 3
4	Chapter 27 - Male Reproduction	Male Reproduction
	Chapter 28 – Female Reproduction	Female Reproduction
	Chapter 29 – Human Development and Aging	Embryo Development
	Chapter 17 – Endocrine System	
	<i>Case Studies – Group Presentations</i>	<i>*Case Studies – Group Presentations</i>
	Lecture Exam 4 (Chapters 17,23, 24, 27, 28, 29); Final Exam Review	Laboratory Exam 4
5	Chapter 17 – Endocrine System	Lab Exercise 28
	<i>Case Studies – Group Presentations</i>	<i>*Case Studies – Group Presentations</i>
(July 8, 2015)	Final Exam Review	
(July 11, 2015)	Final Exam (COMPREHENSIVE EXAM)	

*** 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.



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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



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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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Academic Calendar – Summer I 2016

Apr 12 - May 30	Priority Registration Tuesday through Monday
May 30	Memorial Day Holiday (University Closed) Monday
May 31 - Jun 03	Regular Registration Tuesday through Friday
Jun 06	Instruction, Late Registration, and Add/Drop Period Begins Monday
Jun 06	Last Day for Late Registration and Add Courses – Web Registration Closed Monday
Jun 09	Census Date Thursday
Jun 09	Last Day to Withdraw from Course(s) without Academic Record Thursday
Jun 09	Late Deadline to apply for Summer 2016 Graduation Thursday
Jun 09	Late Deadline for Graduating Undergraduate Students to Submit Application for Tuition Rebate Thursday
Jun 10	Withdrawal from Course(s) with Academic Record (“W”) Begins Friday
Jun 21	60% of Term



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	Tuesday
Jun 24	15th Class Day
	Friday
Jul 04	Independence Day (University Closed)
	Monday
Jul 05	Withdrawal from Course(s) with Academic Record (“W”) Ends
	Tuesday
Jul 08	Last Day to Withdraw from the University (From All Courses)
	Friday
Jul 08	Last Class Day
	Friday
Jul 11	Final Exams
	Monday
Jul 13	Final Grades Due via Panthertracks
	Wednesday