Instructor | Dr. Carla J. Whittaker
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Section # and CRN | Anatomy & Physiology II 1064-P03/ CRN: 10621 (Lecture); Anatomy and Physiology II 1064-P83/CRN 10799 (Laboratory)
Office location | New Science Building 4th floor; Office 430-AC
Office Phone | 936-261-3161
Email address | cjwhittaker@pvamu.edu
Office Hours | Monday and Wednesday 4:45 PM – 5:15 PM; immediately after class; or by Appointment
Mode of Instruction | Face-to-Face
Course Location | New Science Building 311 (Lecture); New Science Building 311 (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:**

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
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

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Value (points or percentages)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture exams</td>
<td>4 Lecture exams at 100 points each.</td>
<td>30%</td>
</tr>
<tr>
<td>Laboratory Practical Exams</td>
<td>4 Practical exams at 100 points each</td>
<td>30%</td>
</tr>
<tr>
<td>Class Participation: Lecture/Lab Quizzes, Lecture/ Laboratory Assignments (Including Online Assignments), BIOPAC Exercises</td>
<td>100 points each</td>
<td>10%</td>
</tr>
<tr>
<td>Laboratory Notebook</td>
<td>GROUP</td>
<td>5%</td>
</tr>
<tr>
<td>CASE STUDY PRESENTATION</td>
<td>GROUP (100 POINTS)</td>
<td>10%</td>
</tr>
<tr>
<td>Comprehensive Final Exam</td>
<td>100 points</td>
<td>15%</td>
</tr>
</tbody>
</table>
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 dates of the lecture exams will be announced in class. 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 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, and laboratory notebook. 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 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 collaboratively engage an assigned scientific topic discussed in the course. The group is expected to do a written and oral presentation of their case study to the class on the assigned day.

**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 November 30, 2016. (Refer to the Fall 2016 Final Exam Schedule).

**Exam Policy**
Exam 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 II/Lab III**

**Unit V: Reproduction and Development**
- Chapter 27: The Male Reproductive System
- Chapter 28: The Female Reproductive System
Unit V: Reproduction and Development (cont.)
Chapter 29: Human Development and Aging
Chapter 17: The Endocrine System
Exam IV/Lab IV

### BIOL 1064 Tentative Lecture and Laboratory Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture</th>
<th>Laboratory</th>
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| 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  
* BIOPAC Lesson 12 Pulmonary Function 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 | |
|      | **Case Studies – Group Presentations** | *Case Studies – Group Presentations* |
|      | **Lecture Exam 4** (Chapters 17, 23, 24, 27, 28, 29); Final Exam Review | Laborator Exam 4 |
| 5    | Chapter 17 – Endocrine System | Lab Exercise 28 |
|      | **Case Studies – Group Presentations** | *Case Studies – Group Presentations* |
| 11/28/16 | Final Exam Review | |
| 11/30/16 | 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.)
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
Academic Calendar – Fall Semester 2016

Aug 18 - Aug 19  Regular Registration Period
                Thursday through Friday

Aug 20             Regular Registration for Graduate Students
                    Saturday

Aug 22 - Aug 26    Late Registration and Drop/Add Period
                    Monday through Friday

Aug 22             First Class Day. Instruction Begins
                    Monday

Aug 27             Late Registration Ends for Graduate Students Web Registration Access Closes at midnight
                    Saturday

Aug 31             General Student Assembly-All Students Attend
                    Wednesday

Sep 05             Labor Day Holiday (University Closed)
                    Monday

Sep 07             12th Class Day (Census Date)
                    Wednesday

Sep 07             Last Day to Drop Course(s) without Academic Record
                    Wednesday

Sep 07             Late Deadline for Graduating Undergraduate Students to Submit Application for Tuition Rebate
                    Wednesday
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<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Sep 07</td>
<td>Late Deadline to Apply for Fall 2016 Graduation</td>
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<td>Wednesday</td>
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<tr>
<td>Sep 08 - Oct 31</td>
<td>Withdrawal from Course(s) with Academic Record (“W”) Period</td>
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<td>Thursday through Monday</td>
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<td>Sep 19</td>
<td>20th Class Day</td>
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<td>Monday</td>
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<td>Oct 13 - Oct 15</td>
<td>Mid-Semester Examination Period</td>
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<td>Thursday through Saturday</td>
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<td>Oct 18</td>
<td>Mid-Semester Grades Due</td>
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<td>Tuesday</td>
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<td>Oct 26</td>
<td>60% of semester</td>
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<td>Wednesday</td>
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<td>Oct 31</td>
<td>Withdrawal from Course(s) with Academic Record (“W”) Ends</td>
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<td>Monday</td>
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<td>Nov 08</td>
<td>Priority Registration Begins for Spring 2017</td>
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<td>Tuesday</td>
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<td>Nov 11</td>
<td>Graduation Application Deadline for Spring 2017 Graduation</td>
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<td>Friday</td>
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<tr>
<td>Nov 24 - Nov 26</td>
<td>Thanksgiving Holiday (University Closed)</td>
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<td></td>
<td>Thursday through Saturday</td>
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<td>Nov 28</td>
<td>Instruction Resumes</td>
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<td>Monday</td>
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Nov 28 - Nov 29  Course Review Days [Classes must convene and instructors will prepare students for Final Exams]

   Monday through Tuesday

Nov 29  Last Class Day

   Tuesday

Nov 29  Last Day to Withdraw from the University (from All Courses)

   Tuesday

Nov 30 - Dec 06  Final Examination Period

   Wednesday through Tuesday

Dec 06  Final Grades Due for Graduating Candidates

   Tuesday

Dec 10  Commencement

   Saturday

Dec 13  Final Grades Due for All Other Students

   Tuesday