ANSC 3514 Anatomy & Physiology  
Fall Semester 2020

Instructor: Milton B. Daley, Ph.D.  
Section # and CRN: Y01-14660/ Y81-14661  
Office Location: Agriculture/Business Bldg. Rm. 307  
Office Phone: 936-261-5134  
Email Address: mdaley@pvamu.edu  
Office Hours: Tues. 1.00pm-5pm; Thurs. 2pm-5pm  
Mode of Instruction: Face to Face  
Course Location: Agriculture/Business Bldg. Rm 216  
Class Days & Times: Tues. & Thurs. 10:10-11:30 am Labs: Fri. 11-11:50am  
Catalog Description: Comparative approach, anatomically and physiologically of the basic systems of domestic animals

Prerequisites: General Animal Science - ANSC 1513  
Co-requisites: None  
Required Texts: Veterinary Anatomy & Physiology, a clinical Manual ISBN 9781435464339

Recommended Texts: Functional Anatomy and Physiology of Domestic Animals ISBN 078174338

Student Learning Outcomes:

<table>
<thead>
<tr>
<th>Upon successful completion of this course, students will be able to:</th>
<th>Program Learning Outcome # Alignment</th>
<th>Core Curriculum Outcome Alignment</th>
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<tbody>
<tr>
<td>1 appreciate the integration of both anatomy and physiology, how structure and function are intimately interconnected</td>
<td>The Agriculture program prepares the graduate to perform as an entry level professional in a broad range of areas</td>
<td>This course will provide fundamental knowledge to help satisfy the requirements for a B.S. degree in Agriculture</td>
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<tr>
<td>2 Gain basic understanding of anatomical terminology and working knowledge (identification) of animal body structure and function that underlie agricultural, biological and other related life sciences.</td>
<td>The degree program is designed to provide a generalist emphasis that serves as the foundation for diverse careers and as a springboard for advanced study in agriculture and natural resource sciences and related fields.</td>
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<td>3 recognize the anatomical differences between the major animal species encountered in the practice of veterinary medicine</td>
<td>The emphasis in Animal and Food Science may also serve as pre-professional curricula for Veterinary Medicine. Additional courses that help the student qualify for professional study in veterinary medicine should be selected in consultation with an advisor</td>
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Major Course Requirements

Method of Determining Final Course Grade

1) Lecture/Lab Exams  4 exams at 100 points each  400
2) Presentation  1 Class presentation  100
3) Laboratory Exercises  6 exercises at 5 points each  30
4) Assignments  7 at 10 points each  70
Total:  600

Grading Criteria and Conversion:
A = 600 - 540
B = 539 - 480
C = 479 - 420
D = 419 - 360
F = 359 or below

Detailed Description of Major Assignments:

<table>
<thead>
<tr>
<th>Assignment Title or Grade Requirement</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Exams</td>
<td>Written examination of course content</td>
</tr>
<tr>
<td>Presentation</td>
<td>500-word paper on importance a body system</td>
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<tr>
<td>Laboratory Exercise</td>
<td>Identification of histology slides and live specimens</td>
</tr>
<tr>
<td>Quizzes</td>
<td>Pop quizzes on course material</td>
</tr>
<tr>
<td>Assignments</td>
<td>Take home assignments on course material</td>
</tr>
</tbody>
</table>

Course Procedures or Additional Instructor Policies

Taskstream
Taskstream is a tool that Prairie View A&M University uses for assessment purposes. At least one of your assignments is REQUIRED to be submitted as an “artifact,” an item of coursework that serves as evidence that course objectives are met. More information will be provided during the semester, but for general information, you can visit Taskstream via the link in eCourses.

Class starts promptly at 9:30 a.m. BE ON TIME! It is distracting to enter classroom once instruction has begun.

Prairie View A&M University requires regular class attendance. Attending all classes supports full academic development of each learner whether classes are taught with the instructor physically present or via distance learning technologies such as interactive video.

Attendance will be checked at each class meeting.

Students are responsible for all oral and written examinations and assignments.

Notify instructor (preferably in writing) in advance or immediately upon return (with written proof) of being absent to be considered an EXCUSED absence.

Examinations and assignments missed during an UNEXCUSED absence will not be accepted. No “make up” exams given.

Cellular phones/Bluetooth devices (to include earbuds/earphones or accessories) are not allowed to be used in/during class unless instructed to do so. Please be considerate of instructor and fellow classmates and turn cellular phones, pagers, etc. OFF (University Policy). Students who leave the class to talk on the phone are not allowed to return to class during that period.

No eating or sleeping in class.

Appropriate attire (refer to student handbook) is expected from all students. Instructor will notify class in advance.
when to dress appropriately for farm visits and activities.

Most importantly, **TAKE NOTES!!** Exam material will come from textbook, class notes, handouts and referred material.

**TOPICS FOR LABORATORY and LECTURE EXERCISES**

Week I. **Introduction**
   - Medical Terminology
   - Gross
   - Histology
   - Ultrastructural
   - Definition of Physiology

Week II. **The Cell, its Structure and Functions**
   - *Lecture/Power Point Presentation
   - *Lab Exercises: Microscope

Week III. **Integumentary System and Function**
   - *Lecture/Power Point Presentation - Tissue Classification of Epithelium
   - Connective Tissue
   - *Lab Exercise: Tissue Histology Sets - Set of slides showing the varying histological appearance of skin from different areas of the body. Equipment: Microscope and Histology slides

Week IV. **Reproductive System**
   - *Lecture/PowerPoint Presentation
   - Positional and Directional Terms
   - Body Sections
   - **Body Cavities and Membranes**
   - *Lecture/PowerPoint Presentation
   - *Lab Exercise: Reproductive tract of the Bird/ Mammal

Week V. **Organ Systems and their Function**
   - **A. Skeletal System**
     - *Lecture/Power Point Presentation
     - *Lab Exercises: Canine and Feline Skeletal Models
     - Histology Slides
     - Identifying cadaver bones

Week VI. **B. Muscular System**
   - *Discussion on different muscle types, physiology of muscle function to include nerve stimulation
   - *Lab Exercise: Histology Slides
   - Computer Model

Week VII. **C. Digestive System**
   - *Discussion on the physiology of digestion: simple stomach vs. ruminants
   - *Lab Exercise: Animal Dissection and Organ Identification
Week VIII. D. **Urogenital System**
*Discussion on the physiology of urine production and excretion; discussion on male and female reproduction
*Lab exercises: Histology Slides; Organ Identification

Week IX. E. **Respiratory System**
*Discussion on the physiology of respiration
*Lab Exercises: Histology Slides
Organ Identification

Week X. F. **Circulatory System**
*Discussion on the physiology of cardiac tissue and route of blood flow through the heart and lungs
Lab Exercises: Comparative Heart Model
Sagittal Dissection of Sheep Heart Model
Organ Identification.

Week XI. G. **Nervous System**
*Discussion on the Autonomic and Sympathetic Nervous System

Week XII. H. **Sensory Organs**
*Discussion on the physiology of hearing and sight
Semester Calendar

Week 1:

**Syllabus and Course Review**

**The Animal Cell**

**Topic Description:**
- T Course Expectations, Classroom Etiquette, Topics for Lecture
- Introduction to Anatomy & Physiology
- Terms, Definitions and Body Systems
- The Animal Cell: Structure and Function

**Readings:**
- Textbook: Chapter 3 Cellular Anatomy & Morphology
- Handout: Levels of Organization

**Assignment (s):**
- Review PP Presentation in ecourse

**Topic Description:**
- R The Animal Cell: Structure and Function

**Assignment (s):**
- Review PP Presentation and Websites listed in ecourse

Week 2:

**Tissue**

**Topic Description:**
- T Tissue: Classification of Tissue

**Readings:**
- Textbook: Chapter 5 Microscopic Anatomy of Tissue pgs. 40-63

**Assignment (s):**
- Review PP Presentation and Websites listed in ecourse

**Topic Description:**
- R Tissue: Integumentary System and Function

**Readings:**
- Textbook: Chapter 6 The Integumentary System

**Assignment (s):**
- In Class: The Integument-read and label
- Review PP Presentation and Websites listed in ecourse

Week 3 and 4:

**Laboratory / Anatomical Terminology / Body Cavities and Membranes**

**Topic Description:**
- T Laboratory: Microscope and Histology Slides: Set of slides showing the varying histological appearance of organ tissue and skin from different areas of the body.

**Topic Description:**
- R Anatomical Terminology: Positional and Directional Terms, Body Sections, Regional Terminology

**Readings:**
- Textbook: Chapter 1 The Terminology of Anatomy
- R Body Cavities and Membranes: Location and Terminology

**Assignment (s):**
- Review PP Presentation in ecourse

Week 5 and 6:

**Reproduction / Skeletal System**

**Topic Description:**
- T Examination I

**Topic Description:**
- R Reproductive System: Terms and Anatomy of Bone

**Readings:**
- Textbook: Chapter 7 The Skeletal System pgs. 108-115

**Assignment (s):**

Week 7:

**Skeletal System cont.**

**Topic Description**
- T Physiology of Bone: Bone Growth and Hormonal Regulation

**Assignment (s):**
- Complete Worksheet: Bone
- Review PP Presentation and Websites listed in ecourse

**Topic Description**
- R Physiology of Bone cont.; Arthrology: Study of Joints

**Assignment (s):**
- Complete Worksheet: Joints
- Review PP Presentations in ecourse
Week 8 and 9: Skeletal System cont.
Topic Description: T  Bones of the Skeletal System
Readings: Textbook: Chapter 7 The Skeletal System pgs.116-140
Assignment (s) Review PP Presentation in ecourse

Week 10: Skeletal System cont.
Topic Description: T  Bones of the Skeletal System, cont.

Week 11 and 12 Examination II
Topic Description: T  Review for Exam II
Review all PP Presentations, Handouts, Websites, Assignments
Topic Description: R  Examination II
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. https://www.pvamu.edu/library/ Phone: 936-261-1500

The Learning Curve (Center for Academic Support)
The Learning Curve 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 Learning Curve 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 Rm. 207F. Phone: 936-261-1561

The Center for the Oversight and Management of Personalized Academic Student Success (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 Rm. 306. Phone: 936-261-1040

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. Students taking on-line courses or courses at the Northwest Houston Center or College of Nursing may consult remotely or by email. Location: Hilliard Hall Rm. 121. Phone: 936-261-3724.

Student Counseling Services
The Student Counseling Services unit offers a range of services and programs to assist students in maximizing their potential for success: short-term individual, couples, and group counseling, as well as crisis intervention, outreach, consultation, and referral services. The staff is licensed by the State of Texas and provides assistance to students who are dealing with academic skills concerns, situational crises, adjustment problems, and emotional difficulties. Information shared with the staff is treated confidentially and in accordance with Texas State Law. Location: Owens-Franklin Health Center Rm. 226. Phone: 936-261-3564

Testing
The Department of Testing administers College Board CLEP examinations, the HESI A2 for pre-nursing majors, LSAT for law school applicants and MPRE for second-year law students, the Experiential Learning Portfolio option, the Texas Success Initiative (TSI) Assessment, which determines college readiness in the state, and exam proctoring, among other service such as SAT and ACT for high school students. Location: Delco Rm. 141. Phone: 936-261-4286

Office of Diagnostic Testing and Disability Services
As a federally mandated educational support unit, the Office of Disability Services serves as the repository for confidential disability files for faculty, staff, and students. For persons with a disability, the Office develops individualized ADA letters of request for accommodations. Other services include: learning style inventories, awareness workshops, accessibility pathways, webinars, computer laboratory with adapted hard and software, adapted furniture, proctoring of non-standardized test administrations, ASL interpreters, ALDs, digital recorders, live scribe, Kurtzweil, and a comprehensive referral network across campus and the broader community. Location: Evans Hall Rm. 317. Phone: 936-261-3585
Veteran Affairs
Veterans Services works with student veterans, current military and military dependents to support their transition to the college environment and continued persistence to graduation. The Office coordinates and certifies benefits for both the G.I. Bill and the Texas Hazlewood Act. Location: Evans Hall Rm. 323. Phone: 936-261-3563

Office for Student Engagement
The Office for Student Engagement delivers comprehensive programs and services designed to meet the co-curricular needs of students. The Office implements inclusive and accessible programs and services that enhance student development through exposure to and participation in diverse and relevant social, cultural, intellectual, recreational, community service, leadership development and campus governance. Location: Memorial Student Center Rm. 221. Phone: 936-261-1340

Career Services
Career Services supports students through professional development, career readiness, and placement and employment assistance. The Office provides one-on-one career coaching, interview preparation, resume and letter writing, and career exploration workshops and seminars. Services are provided for students at the Northwest Houston Center and College of Nursing in the Medical Center twice a month or on a requested basis. Distance Learning students are encouraged to visit the Career Services website for information regarding services provided. Location: Evans Hall Rm. 217. Phone: 936-261-3570

University Rules and Procedures

Disability Statement (Also See Student Handbook):
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Evans Hall, Room 317, or call 936-261-3585/3.

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.

**Title IX Statement**
Prairie View A&M University (PVAMU) is committed to supporting students and complying with the Texas A&M University System non-discrimination policy. It seeks to establish an environment that is free of bias, discrimination, and harassment. If you experience an incident of sex- or gender-based discrimination, including sexual harassment, sexual assault or attempted sexual assault, we encourage you to report it. While you may talk to a faculty member about an incident of misconduct, the faculty member must report the basic facts of your experience to Ms. Alexia Taylor, PVAMU’s Title IX Coordinator. If you would like to speak with someone who may be able to afford you privacy or confidentiality, there are individuals who can meet with you. The Title IX Coordinator is designated to handle inquiries regarding non-discrimination policies and can assist you with understanding your options and connect you with on- and off-campus resources. The Title IX Coordinator can be reached by phone at 936-261-2123 or in Suite 013 in the A.I. Thomas Administration Building.

**Class Attendance Policy (See Catalog for Full Attendance Policy)**
Prairie View A&M University requires regular class attendance. Attending all classes supports full academic development of each learner whether classes are taught with the instructor physically present or via distance learning technologies such as interactive video and/or internet.

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 during regular semesters and summer terms. Each faculty member will include the University’s attendance policy in each course syllabus.

**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.

**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 in the Web browser preferences

**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/they should be copied and pasted to the discussion board.