Instructor: Negusse F. Kidane, Ph.D.
Section # and CRN: PO1 - AGRI-1327
Office Location: Agriculture and Business bldg. Room # 316
Office Phone: 936-261-2507
Email Address: nfkidane@pvamu.edu
Office Hours: Tuesday and Thursday; 9:00 AM – 12:00 PM (Open door policy)
Mode of Instruction: Face to Face and Lab
Course Location: Agriculture and Business Building
Class Days & Times: Lecture T 1:00 pm - 2:50 pm Face-to-Face
Lab R 1:00 pm - 2:50 pm Face to Face Lab 222 AGR_BUS_Bld.
Catalog Description: ANSC 2523 Poultry Sciences: 3 semester hours.
This course deals with the basic principles of poultry sciences. Poultry science covers several topics such as anatomy and physiology, genetics and genomics, immunology and health, reproductive biology and endocrinology, behavior and welfare, nutrient absorption and metabolism, and of course macro and microenvironments of the avian species known as poultry. As model animals for the Avian species, focus will be on chickens and turkey, and to some extent on ostrich, duck and goose.
Prerequisites: General animal Sciences
Co-requisites: None:
Required Texts: None
Student Learning Outcomes:

<table>
<thead>
<tr>
<th>Upon successful completion of this course, students will be able to:</th>
<th>Program Learning Outcome #</th>
<th>Core Curriculum Outcome Alignment</th>
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<tbody>
<tr>
<td>1 Impart knowledge relating the poultry (chickens, turkeys, ducks etc.) industry and its ultimate value as food (meat and egg) products.</td>
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<td>2 Be familiar with terminologies relate to the principles of poultry science.</td>
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<td>3 Understand the anatomy and physiology, and endocrinology of male and female poultry.</td>
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<tr>
<td>4 Understand the principles underlying biotechnology (genetics and genomics) and their role in the improvement of the poultry production, health and welfare</td>
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<tr>
<td>5 Be familiar with emerging biotechnology and assisted reproductive technologies used in the poultry industry.</td>
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<tr>
<td>6 Comprehend the core concept of nutrient absorption, metabolism, and the</td>
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application of quantitative nutrient requirements of poultry.

7 Understand the current feeding strategies for improved growth, health and productivity of the poultry.

8 Understand the concept of maintenance and social behaviors, and internal and external factors that contribute towards the modification of the poultry behaviors.

9 Recognize the difference between animal welfare and animal right in relation to poultry industry.

10 Apply scientific method and techniques used in poultry sciences research and productions.

Course Goals or Overview:
A goal of the course is to help students make informed concept on poultry agriculture, to develop an attitude of appreciation and respect for the poultry industry and its products of food, feather, manure, and companionship. In addition to the content areas presented here, this goal requires critical thinking skills; an assertive self-disciplined, self-starter that questions the powers to be; has general overview knowledge of the science component of animal agriculture and has an appreciation of agriculture in general.

Course Objectives/Accrediting Body (NCATE, ABET, NAAB, etc…) Standards Met: (standards will depend on the course)
To acquaint students with the knowledge of feeding, husbandry practices, breeding and genetics, and the performance of farm animals and other objectives or specialized accrediting agency requirements as needed.

Major Course Requirements
This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course. Note: See Program Outcomes in True Outcomes

Exams – written tests designed to measure knowledge of presented course material
Exercises – written assignments designed to supplement and reinforce course material
Projects – Literature based assignments designed to measure ability to apply presented course material
Class Participation – daily attendance and participation in class discussions

(points will vary according to instructor’s grading system)

Method of Determining Final Course Grade
(Points will vary according to instructor’s grading system)

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<tr>
<th>Course Grade Requirement</th>
<th>Value</th>
<th>Final Grade (%)</th>
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<tbody>
<tr>
<td>1) Value of the first 2 exams</td>
<td>15%</td>
<td>30</td>
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<tr>
<td>2) Assignment Term paper/Presentation</td>
<td>10%</td>
<td>10</td>
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<tr>
<td>3) Midterm exam</td>
<td>20%</td>
<td>20</td>
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<tr>
<td>4) Laboratory Exercise, and Attendance</td>
<td>10%</td>
<td>10</td>
</tr>
<tr>
<td>5) Final exam</td>
<td>30%</td>
<td>30</td>
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<tr>
<td>6) Total</td>
<td>100%</td>
<td>100</td>
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Grading Criteria and Conversion:
A = 90 – 100 pts;
B = 80 – 89 pts;
C = 70 – 79 pts;
D = 60 – 69 pts;
F = 59 pts or below

Note: There will be three written, one-hour exams and a comprehensive one final exam. These exams will consist multiple choices, short answers and essay types. The instructor reserves the right to changes these policies as needed.
ASSIGNMENTS:
Detailed description of Major Assignments information including title, rubrics and due date will be given Separately and will also posted on ecourse: [See eCourses online for description]. All assignments Must Be types, Use font size 12.

Course Procedures or Additional Instructor Policies

Task stream
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.
NOTE: All assignments must be submitted on time, formatting should be 12 font, times new Roman and double spaced. DO NOT COPY OR PLAGIARIZE OTHER STUDENTS ASSIGNMENTS ETC. All assignments can be found in your eCourses online. Turn in all assignments as hard copy in class on the due dates. No cell phones and other class disruptions will not be tolerated.
## Semester Calendar

<table>
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<tr>
<th>Week One to Week Sixteen</th>
<th>Course Contents</th>
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<tbody>
<tr>
<td><strong>Week One</strong></td>
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</table>
| **Unit 1**               | • Introduction to Poultry Science  
                          | • Systems of Poultry Productions  
                          | • Economic Role of Poultry Production |
| **Week Two**             | History of Poultry Science |
| **Unit 2**               | • History of domestication of poultry  
                          | • Location and purpose of domestication  
                          | • Classification of poultry  
                          | • Scientific Method and Techniques used in poultry Sciences |
|                          | Taxonomy and Classification |
|                          | • Nomenclature of poultry  
                          | • Types of poultry  
                          | • Distribution of poultry worldwide as well as in the US. |
| **Week Three**           | Anatomy and Physiology of the Chicken |
| **Unit 4**               | • Body organization of the chicken  
                          | • Biological systems of the chicken’s body  
                          | The Integumentary system |
|                          | • The skin  
                          | • The feathers |
|                          | o Type, growth, pigmentation and molting of feathers  
                          | • The appendages (claws and beak)  
                          | • Functions of the Integumentary system |
| **Week Four**            | The Respiratory System |
| **Unit 5**               | • Structure of the respiratory systems  
                          | • Lungs, bronchi and air sacs  
                          | • Larynx, trachea and syrinx  
                          | • Pneumatic bones as part of the respiratory system  
                          | • Physiology of respiration and gaseous exchange  
                          | • Thermoregulation, vocalization and detoxification |
|                          | EXAM 1 |
| **Week Five and Week Six** | The Digestive System |
| **Unit 6**               | • Gross morphological features of:  
                          | o The mouth and esophagus  
                          | o The gastrointestinal tract  
                          | o Crop, proventriculus and ventriculus  
                          | o Small and large intestine  
                          | o Cecum, rectum and cloaca  
                          | • Accessory organs  
                          | o Liver, spleen, pancreas  
                          | o Enzymes, secretion and their functions  
                          | • Digestion, absorption and metabolism of nutrients  
                          | • Feed intake, requirements and digestive capacity  
                          | • Gut microflora and their role |
| **Week Seven**           | The Muscular System |
| **Unit 7**               | • Structure and function of muscles  
                          | o Skeletal Muscles  
                          | o Smooth muscle  
                          | o Cardiac muscle  
                          | • Muscle contraction and energy expenditure |
| **Week Eight**           | The Circulatory System: |
| **Unit 8**               | • Components of the Heart  
                          | • Components of the blood (cells and plasma) |
| **WEEK NINE** | **The Nervous and Endocrine system**  
**UNIT 9**  
- Brain, neurons, and synapse,  
- Electrical transmission and stimulus  
- The major endocrine glands  
- Hypothalamic hypophyseal region  
- Hormones and their functions |
|---|---|
| **WEEK TEN** | **The Skeletal System**  
**UNIT 10**  
- Pneumatic Bones, Medullary, Vertebrae  
- Arthology Joints, Tendons, and Ligaments  
- Growth and Development of Poultry  
  - Formation and organization of bones  
  - Formation and organization of muscles  
  - Adipose tissue formation and organization |
| **WEEK ELEVEN** | **Genetics and Genomic of poultry**  
**UNIT 11**  
- Molecular and Cellular biology  
- Genetic improvement of poultry  
- Selection; and Culling  
- Common Breeds of poultry |
| **WEEK TWELVE** | **The Immune System**  
**UNIT 12**  
- Humoral immunity  
- Cell mediated immunity  
- Antibodies, phagocytes  
- Natural and acquired immunities  
- Passive and active Immunities |
| **WEEK THIRTEEN** | **The Excretory System**  
**UNIT 13**  
- Components of the excretory system  
- Kidney, ureters  
  - Nephron of the kidney  
  - The cloaca as an excretory organ  
  - Functions of the excretory system  
  - Composition and concentration of the uric acid |
| **WEEK FOURTEEN** | **The Reproductive System**  
**UNIT 14**  
- Female Reproductive System  
- Male Reproductive System  
- Anatomy of the egg  
  - Structure and components of the egg  
  - Chemical composition of the egg  
  - Egg as a reproductive structure  
  - Embryology of the developing chick  
  - Assisted reproductive technologies in poultry |
| **WEEK FIFTEEN** | **Animal Well-Being and Behavior**  
**UNIT 15**  
- Feeding and perching behaviors  
- Social and reproductive behavior  
- Animal welfare vs. animal rights  
- Poultry and environment  
- Macro-environment  
- Micro-environments |
| **WEEK SIXTEEN** |  
- Assignment presentation  
- Course Review  
- **Exam 4 (FINAL EXAM)** |
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, livescribe, 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 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. The Dean of Students under nonacademic procedures will adjudicate such incidents.

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**
Prarie 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 instructor will determine the exact use of discussion.

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.