**ACBS 336A**

**Applied Animal Nutrition**

**Spring, 2024**

**Course Policies and Syllabus**

**Course Title**: Applied Animal Nutrition

**Meeting time/room**: 11:00 – 12:15 pm T, TH, Saguaro Hall 225

**Instructor**: **Samuel Garcia, PhD**

Agriculture Research Center

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Tucson, AZ 85719

Cell: (520) 456-7804

*I prefer to be contacted via Email*: *srgarcia@arizona.edu*

***When you email me, please put ACBS 336 in the subject line***

**TA:**

**Office hours**: By appointment only or will be announced as deemed necessary.

**Overview**:

This course will focus on livestock feeds and practical livestock feeding applications. Throughout the semester, this course will strongly emphasize the identification of common livestock feeds as well as ration formulation for livestock species

**Objectives:**

* Introduce the foundation livestock feeding
* Provide a foundation for critical thinking in and around feeding operations.
* Provide students with the requirements of production placed upon today’s production animals.
* Provide students with the various feedstuff sources.
* Provide the foundation for ration formulations

**Learning outcomes**:

Upon completing this course, the student will be able to:

* **Describe** feeding operations and feedstuffs
* **Design**  rations for a particular animal in a specific phase of production
* **Analyze** feedstuffs that are available and determine the best use in various stages of production.

**Required Texts**:

You will receive all of the information you need in class or on D2L. However, if you feel like you need more, the recommended books are: Livestock Feeds and Feeding by Richards O. Kellems; sixth edition and/or Animal Feeding & Nutrition by Marshall Jurgens, Kristen Bregendahl, Josie Coverdale, and Stephanie Hansen; Eleventh Edition

**Desire 2 Learn or d2l:** This program will be used to post grades and pertinent news information and can be found at [www.d2l.arizona.edu](http://www.d2l.arizona.edu). In addition to handing in hard copies of all written assignments, you will also be downloading your assignments to the Dropbox on d2l.

**Attendance Policy**: Due to the level of this class, obviously formal attendance will not be taken. However, we encourage attendance and participation in class.

**Assignments:**

4 Exam @ 50 pts each

8 Assignments/Quizzes @ 25 pts each

Final @ 100 pts

Total points possible 500

**Grading Policy**: A standard scale will be used:

A = 90% or higher

B = 80-89%

C = 70-79%

D = 60-69%

E > 60%

Rounding up a grade will be based upon participation in class.

Late assignments will be reduced 10% per week.

No make-ups allowed on exams except in extreme cases.

**Discomfort Statement:**

Quote from philosopher Kwame Anthony Appiah, “Our main task in a seminar room is not to make people feel good, it’s to make people understand things, and sometimes, in order to understand things, you have to feel not so good.”

It is my job as a professor to challenge you to think critically about your own and others’ ideas, as well as to learn to synthesize and analyze contrasting materials on a particular subject. Sometimes the materials and discussions in the class will make you uncomfortable and that is okay. I ask that you get comfortable being uncomfortable.

**Student Code of Academic Integrity**:

All forms of academic dishonesty are prohibited, including, but not limited to cheating, fabrication, facilitating academic dishonesty, plagiarism, modifying any academic work to obtain additional credit without the approval of the instructor, or attempting to carry out any of the above. Committing any of the above will result in sanctions being imposed on the student’s scores or grade up to and including the assignment of an “E” for the entire course. Please refer to: http://dos.web.arizona.edu/uapolicies/

**Student Code of Conduct**:

The aim of education is the intellectual, personal, social, and ethical development of the individual. The educational process is ideally conducted in an environment that encourages reasoned discourse, intellectual honesty, openness to constructive change and respect for the rights of all individuals. Self-discipline and a respect for the rights of others in the university community are necessary for the fulfillment of such goals. The Student Code of Conduct is designed to promote this environment at each of the state universities. The Student Code of Conduct sets forth the standards of conduct expected of students who choose to join the university community. Students who violate these standards will be subject to disciplinary sanctions in order to promote their own personal development, to protect the university community, and to maintain order and stability on campus. <http://dos.web.arizona.edu/uapolicies/scc5308abcd.html>

**Confidentiality of Student Records**:

<http://www.registrar.arizona.edu/ferpa/default.htm>

**Subject to Change Statement**:

This syllabus may be subject to change with advance notice, as deemed appropriate by the instructors.

**Notification of Objectionable Materials**:

Please turn off your cell phones and pagers during class. You can live without texting for 75 minutes. It is not only disturbing to the lecturer, but also to fellow students. Laptops will only be allowed for class related purposes. Furthermore, if you want to read the paper or work on other material, please don’t bother to come to class. If you come to class, please have the courtesy to pay attention.

**Special Needs and Accommodations Statement**:

Students with Disabilities: If you anticipate barriers related to the format or requirements of this course, please meet with me so that we can discuss ways to ensure your full participation in the course. If you determine that disability-related accommodations are necessary, please register with Disability Resources (621-3268; http://drc.arizona.edu/) and notify me of your eligibility for reasonable accommodations. We can then plan how best to coordinate your accommodations.

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| **ACBS 336A Tentative Schedule (Tuesday-Thursday 8:00-9:15 am)** | | | |
| **January** |  | **Assignment** | **Points** |
| **11** | Syllabus/Knowledge Assessment |  |  |
| **16** | Feeds used in livestock feeding |  |  |
| **18** | Feeds used in livestock feeding |  |  |
| **23** | Review of digestive systems- Online |  |  |
| **25** | Review of Nutrients- Online |  |  |
| **30** | Evaluating Feedstuffs for Farm Livestock |  |  |
| **February** |  |  |  |
| **1** | Exam 1 |  | 50 |
| **6** | Commercial Feeds |  |  |
| **8** | Commercial Feeds |  |  |
| **13** | Ration Formulation |  |  |
| **15** | Ration Formulation |  |  |
| **20** | Feed Additives |  |  |
| **22** | Exam 2 |  | 50 |
| **27** | Feeding Horses |  |  |
| **29** |  | Formulation/Assignment 1 | 25 |
| **March** |  |  |  |
| **5** | Feeding Goats |  |  |
| **7** |  | Formulation/Assignment 2 | 25 |
| **12** | Feeding Sheep |  |  |
| **14** |  | Formulation/Assignment 3 | 25 |
| **19** | Feeding Swine |  |  |
| **21** |  | Formulation/Assignment 4 | 25 |
| **26** | Feeding Poultry |  |  |
| **28** |  | Formulation/Assignment 5 | 25 |
| **April** |  |  |  |
| **2** | Exam 3 |  | 50 |
| **4** | Feeding Companion Animals |  |  |
| **9** | Feeding Dairy Cattle |  |  |
| **11** |  | Formulation/Assignment 6 | 25 |
| **16** | Feeding Beef Cattle |  |  |
| **18** |  | Formulation/Assignment 7 | 25 |
| **23** | Growing and Finishing Cattle |  |  |
| **25** |  | Formulation/Assignment 8 | 25 |
| **30** |  |  |  |
| **May** |  |  |  |
| **2** | Exam 4 |  | 50 |
| **7** |  |  |  |
| **9** | Final Exam |  | 100 |
|  |  | ***Points Total*** | **500** |