**APPLIED ANIMAL NUTRITION**

**Winter 2020**

Instructor: Clayton Weber

Office & Hours: WOH 127 D MWF: 11-11:50 AM

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Course #: ANS 211

CRN: 31365

Meets: Lecture MW: 10-10:50 AM Lab F: 9-10:50 AM

Classroom: MW: RCH 207 F: WOH 122

Required Supplies: Calculator (No cell phones)

Textbook: ANIMAL FEEDING AND NUTRITION by Marshall H. Jurgens

**Prerequisite:** **Students must have successfully completed ANS 210 Feeds & Feed Processing before enrolling in this course.**

**Learning Outcomes:**

Upon successful completion of this course, students should be able to:

* Balance a ration for a specific nutrient level using the Pearson Square method or algebraic method
* Determine nutrient values for specific feedstuffs using feed composition tables
* Identify appropriate nutrient levels for specific classes of sheep, cattle, swine, & horses using NRC tables
* Develop basic feeding strategies for sheep, cattle, swine, & horses

**Grading Procedure:** Your final grade in this course will be based on the following:

Lab Practice Problems (10) 100 pts

Quizzes (4) 100 pts

Final Exam 100 pts

Grading Scale

A = 90 – 100% of the highest point total in class

B = 80 – 89% of the highest point total in class

C = 70 – 79% of the highest point total in class

 D = 60 – 69% of the highest point total in class

F = < than 60% of the highest point total in class

**Grading Guidelines:**

1. Lab practice problems will be due at the beginning of the next class period. Lab practice problems are valued at 10 pts and will not be accepted unless work is satisfactory. No late work will be accepted unless prior arrangements have been established with the instructor.
2. Quizzes will be announced and students **must** make prior arrangements if a quiz is to be missed. Make-up’s must be completed before the next class period to potentially earn full credit.
3. Final grade will be evaluated on a curve, where the highest class point total becomes the maximum point total.
4. The awarding of an **Incomplete** is at the discretion of the instructor & will only be awarded if a majority of the coursework has been completed by the student.
5. **No cell phones during class!**

Students who may need accommodations due to documented disabilities, who have medical information which the instructor should know, or who need special arrangements in an emergency should speak with their instructor during the first week of class. If you believe you may need accommodations but are not yet registered with the Center for Accessibility Resources (CFAR), please visit the [**CFAR Website**](https://www.linnbenton.edu/cfar) for steps on how to apply for services or call (541) 917-4789.

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You have until Friday 5pm of the seventh week **(February 21, 2020)** to drop a class without a grade penalty. If dropping this class puts you below 12 credits and you are on financial aid, you may lose your financial aid. If you fail to drop by **February 21, 2020**, you will receive a letter grade for this course.

# **TENTATIVE COURSE OUTLINE**

WEEK TOPIC

1. Course Content, Nutrient Composition,

Feed Pricing Problems & Demonstrate Pearson Square

 2 Swine Nutrition & Ration Formulation

**Quiz 1**

1. Swine Ration Formulation

No class Monday, January 20, 2020, **\*Martin Luther King Jr. Day\***

 4 Sheep Nutrition & Ration Formulation

**Quiz 2**

 5 Goat Nutrition & Ration Formulation

1. Beef Cattle Herd Nutrition & Ration Formulation

#### Quiz 3

1. Feedlot Cattle Nutrition & Ration Formulation

No class Monday, February 17, 2020, \***President’s Day**\*

1. Horse Nutrition & Ration Formulation

 9 Dairy Nutrition & Ration Formulation

 **Quiz 4**

10 Course Summary & Final Exam Review

**FINAL EXAM: Monday, March 16th, 8-9:50 AM**