# APPLIED ANIMAL NUTRITION
## Winter 2021

**Instructor**:        Clayton Weber
**Office & Hours**:     WOH 127D, virtual office hour by appointment via email
**Phone**:          917-4768
**E-mail**:          weberc@linnbenton.edu
**Course #**:       ANS 211
**CRN**:           31365
**Meets**:          **Lecture**: Online in Moodle **Lab**: Friday 9-10:50 AM via Zoom
**Required Supplies**: Calculator (No cell phones), Computer with Zoom capability
**Textbook**:      ANIMAL FEEDING AND NUTRITION by Marshall H. Jurgens
                    ANS 211 Course Note Packet
**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)       75 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 completed by the end of lab each week in Zoom. Lab practice problems are valued at 7.5 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. **Students must be present in lab to earn points for that lab (No Exceptions)**.
2. Quizzes will be announced and students **must** take the quizzes during the time range scheduled for each quiz. Each quiz will have a time limit associated with it.
3. Final grades 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.

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** for steps on how to apply for services or call (541) 917-4789.

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws.  (for further information http://po.linnbenton.edu/BPsandARs/)  Board Policy P1015

You have until Friday 5pm of the seventh week **(February 19, 2021)** 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 19, 2021**, 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** |
| 3 | Swine Ration Formulation |
| 4 | Sheep Nutrition & Ration Formulation **Quiz 2** |
| 5 | Goat Nutrition & Ration Formulation |
| 6 | Beef Cattle Herd Nutrition & Ration Formulation **Quiz 3** |
| 7 | Feedlot Cattle Nutrition & Ration Formulation |
| 8 | Horse Nutrition & Ration Formulation |
| 9 | Dairy Nutrition & Ration Formulation **Quiz 4** |
| 10 | Course Summary & Final Exam Review |
| **11** | **Final Exam (TBD)** |