



**COWLEY COLLEGE  
& Area Vocational Technical School**

**COURSE PROCEDURE FOR**

<p><b>Livestock Rations AGR1276 3 Credit Hour</b></p>
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**Student Level:**

This course is open to students on the college level in either the Freshman or Sophomore year.

**Catalog Description:**

**AGR1276 Livestock Rations (3cr)**

This course studies feedstuffs, feed processing, and nutrient digestion and utilization by livestock. The student will be able to apply the principles of livestock rations to feeding livestock through the use of technology in the formulation and calculation of livestock rations based on the requirements of the different livestock species and feeding livestock. This is a lecture course.

**Prerequisites:**

None

**Co-requisites:**

None

**Controlling Purpose:**

The purpose of this this course is to provide the student with the knowledge and skill necessary to formulate rations to feed livestock and that the nutritional needs of the animal is being meet.

**Learner Outcomes:**

Upon completion of the course, the student will:

1. Demonstrate their knowledge of terminology, feed ingredients, and mixed rations
2. Demonstrate the ability to prepare feed, including additives and implants
3. Illustrate common problems with livestock rations and methods to control or correct them

**Units Outcomes and Clock Hours of Instruction for Core Curriculum:**

The following outline defines the minimum core content not including the final examination period. Instructors may add other material as time allows.

Evaluation Key:

- A = All major and minor goals have been achieved and the achievement level is considerably above the minimum required for doing more advanced work in the same field.
- B = All major goals have been achieved, but the student has failed to achieve some of the less important goals. However, the student has progressed to the point where the goals of work at the next level can be easily achieved.
- C = All major goals have been achieved, but many of the minor goals have not been achieved. In this grade range, the minimum level of proficiency represents a person who has achieved the major goals to the minimum amount of preparation necessary for taking more advanced work in the same field, but without any major handicap of inadequacy in his background.
- D = A few of the major goals have been achieved, but the student's achievement is so limited that he is not well prepared to work at a more advanced level in the same field.
- F = Failing, will be computed in GPA and hours attempted.
- N = No instruction or training in this area.

UNIT 1:						
Outcomes: Demonstrate their knowledge of terminology, feed ingredients, and mixed rations						
A	B	C	D	F	N	Specific Competencies: <i>Students will be able to</i>
						Describe feed ingredient classifications
						Explain feed tags
						Perform rations by hand and by computers
						Compare different nutritional needs of each species
						Describe palatability of feedstuffs
						Illustrate the meaning of terminology and usage within the industry

UNIT 2:						
Outcomes: Demonstrate the ability to prepare feed, including additives and implants						
A	B	C	D	F	N	Specific Competencies: <i>Students will be able to</i>
						Hand calculate a Pearson Square.
						Perform algebraic calculations.
						Utilize computer-based feed calculators.
						Illustrate the need and utilization of implants and additives in feed rations.

<b>UNIT 3:</b>						
Outcomes: Illustrate common problems with livestock rations and methods to control or correct them						
A	B	C	D	F	N	Specific Competencies: <i>Students will be able to</i>
						Define problems associated with bloat and solution for prevention and restoration.
						Describe the bioavailable and digestive value of feed ingredients
						Describe the availability of feedstuffs in various geographic locations

**Projects Required:**

Varies, refer to syllabus.

**Textbook:**

Contact Bookstore for current textbook.

**Materials/Equipment Required:**

None

**Attendance Policy:**

Students should adhere to the attendance policy outlined by the instructor in the course syllabus.

**Grading Policy:**

The grading policy will be outlined by the instructor in the course syllabus.

**Maximum class size:**

Based on classroom occupancy

**Course Time Frame:**

The U.S. Department of Education, Higher Learning Commission and the Kansas Board of Regents define credit hour and have specific regulations that the college must follow when developing, teaching and assessing the educational aspects of the college. A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally-established equivalency that reasonably approximates not less than one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work for approximately fifteen weeks for one semester hour of credit or an equivalent amount of work over a different amount of time. The number of semester hours of credit allowed for each distance education or blended hybrid courses shall be assigned by the college based on the amount of time needed to achieve the same course outcomes in a purely face-to-face format.

**Refer to the following policies:**

[402.00 Academic Code of Conduct](#)

[263.00 Student Appeal of Course Grades](#)

[403.00 Student Code of Conduct](#)

**Disability Services Program:**

Cowley College, in recognition of state and federal laws, will accommodate a student with a documented disability. If a student has a disability which may impact work in this class and which requires accommodations, contact the Disability Services Coordinator.