1. **COURSE TITLE\*:** Livestock Feeds and Feeding
2. **CATALOG – PREFIX/COURSE NUMBER/COURSE SECTION\*:** AGRI 1126
3. **PREREQUISITE(S)\*:** AGRI 1107  **COREQUISITE(S)\*:** None
4. **COURSE TIME/LOCATION/MODALITY: (*Course Syllabus – Individual Instructor Specific*)**
5. **CREDIT HOURS\*:** 3 **LECTURE HOURS\*:** 3

 **LABORATORY HOURS\*:** 0 **OBSERVATION HOURS\*:** 0

1. **FACULTY CONTACT INFORMATION: *(Course Syllabus – Individual Instructor Specific)***
2. **COURSE DESCRIPTION\*:**

A study of fundamental principles of feeds and feed use in farm livestock to meet nutritional and dietary requirements of farm animals. Digestive physiology will be introduced. This course includes the study of specific nutrients and feedstuff as related to domestic farm livestock. Feedstuffs will be studied in relation to value added to a ration. Ration formulation will be introduced.

1. **LEARNING OUTCOMES\*:**

At the completion of this course the student will:

1. Possess an understanding of the scientific concepts of livestock nutrition.

2. Possess an understanding of practical and economical feedings of livestock.

3. Possess an understanding of the composition, properties, and use of all important feed stuff.

4. Possess an understanding of the various feeding requirements of livestock.

1. **ADOPTED TEXT(S)\*:**

Basic Animal Nutrition and Feeding

 5th Edition

 Pond, Church, Pond, & Schoknecht

 John Wiley & Sons, Inc.

 ISBN: 978-0-471-21539-4

**9a: SUPPLEMENTAL TEXTS APPROVED BY FULL TIME DEPARTMENTAL FACULTY (INSTRUCTOR MUST NOTIFY THE BOOKSTORE BEFORE THE TEXTBOOK ORDERING DEADLINE DATE PRIOR TO ADOPTION) \*\*\*.**

1. **OTHER REQUIRED MATERIALS: (SEE APPENDIX C FOR TECHNOLOGY REQUEST FORM.)\*\***

Other resources may be required as the term progresses and will be announced or given in class.

1. **GRADING SCALE\*\*\*:**

Grading will follow the policy in the catalog. The scale is as follows:

A: 90 – 100

 B: 80 – 89

 C: 70 – 79

 D: 60 – 69

 F: 0 – 59

1. **GRADING PROCEDURES OR ASSESSMENTS: (*Course Syllabus – Individual Instructor Specific)***

Knowledge of content is evaluated by various methods at the discretion of the instructor. All exams are comprehensive. Quizzes may be given at the instructor’s discretion. Make-up exams and quizzes will not be permitted.

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| --- | --- | --- |
| *Category* | ***EXAMPLE ONLY****Total Points* | *% of Grade* |
| Chapter Homework | 100 | 10% |
| Chapter Quizzes | 100 | 10% |
| Mid-term Exams (2) | 300 | 30% |
| Research Paper | 150 | 15% |
| Feed ID Test | 150 | 15% |
| Final Exam | 150 | 15% |
| Attendance/Participation | 50 | 5% |
| Total | 1000 | 100% |

1. **COURSE METHODOLOGY: *(Course Syllabus – Individual Instructor Specific)***

This course may use lectures, discussion, video, computer slide show, in and out of class assignments, work projects, research papers, and written exams as appropriate to the course objectives.

1. **COURSE OUTLINE: *(Course Syllabus – Individual Instructor Specific)***

***(Insert sample course outline with learning outcomes tied to assignments / topics.)***

**Suggested Course Outline:** **Learning Outcome(s)**

Week 1 Animal Nutrition: Its Role in Modern Agriculture 1

 Common Methods of Analysis for Nutrients & Feedstuffs 1

Week 2 The Gastrointestinal Tract & Nutrition 1

 Measurement of Feed & Nutrient Utilization 1

Week 3 Water 1, 2

 Carbohydrates 1,2

Week 4 Lipids 1, 2

 Proteins & Amino Acids 1, 2

Week 5 Energy Metabolism

 **Exam #1**

Week 6 Macromineral Elements 2, 3

 Mineral Toxicities & Organic Toxins in the Food Chain 2, 3

Week 7 Fat-Soluble Vitamins 2, 3

 Water-Soluble Vitamins 2, 3

Week 8 Regulation of Nutrient Partitioning 2, 3

 Factors affecting Feed Consumption 3

Week 9 Feeding Standards & Productivity 2, 3

 Feedstuffs 2, 3

Week 10 Feed Preparation & Processing 2, 3

**Exam #2**

Week 11 Diet Formulation 2, 3

 Beef Cattle 4

Week 12 Dairy Cattle 4

 Sheep & Goats 4

Week 13 Swine 4

 Poultry 4

Week 14 Horses 4

 Dogs & Cats 4

Week 15 Fish 4

 Zoo Animals 4

Week 16 Final Exam **(Exam #3)**

1. **SPECIFIC MANAGEMENT REQUIREMENTS\*\*\*:**

**Student Responsibilities: Students must Read the Textbook and understand the Chapter Learning Objectives. Attend class and be prepared to participate in that day’s discussion, complete the Project(s) by the due dates, and complete the Quizzes & Exams by the due dates. Students must also Display Sincere adult Behavior in the classroom.  Students must do their own work!  No Plagiarism!**

Students may withdraw from classes according to the schedule in the student handbook. Withdrawal from classes may affect the student’s financial aid. See the FEE SCHEDULE section of the College Catalog for the policy on refunds and financial aid.

**Instructor Responsibilities:** It is the responsibility of the instructor to enhance and expand the meaning and application of the subject matter covered in the course. The instructor will not normally review the assigned text. The instructor will provide grades in a timely manner and make arrangements to be available for assistance as needed.

**16. FERPA:\***

Students need to understand that their work may be seen by others. Others may see your work when being distributed, during group project work, or if it is chosen for demonstration purposes. Students also need to know that there is a strong possibility that your work may be submitted to other entities for the purpose of plagiarism checks.

**17. ACCOMODATIONS: \***

Students requesting accommodation may contact Ryan Hall, Accessibility Coordinator at rhall21@sscc.edu or 937-393-3431, X 2604.

Students seeking a religious accommodation for absences permitted under Ohio’s Testing Your Faith Act must provide the instructor and the Academic Affairs office with written notice of the specific dates for which the student requires an accommodation and must do so no later than fourteen (14) days after the first day of instruction or fourteen (14) days before the dates of absence, whichever comes first. For more information about Religious Accommodations, contact Ryan Hall, Accessibility Coordinator at rhall21@sscc.edu or 937-393-3431 X 2604.

**18. OTHER INFORMATION\*\*\*:**

**Classroom conduct:** Civility in the classroom is very important. As professionals, we expect students to conduct themselves in a courteous and respectful manner. Disruptive, rude, sarcastic, obscene or disrespectful speech or behavior have a negative impact on everyone and will not be tolerated.

**SYLLABUS TEMPLATE KEY**

**\*** Item cannot be altered from that which is included in the master syllabus approved by the Curriculum Committee.

**\*\*** Any alteration or addition must be approved by the Curriculum Committee

**\*\*\*** Item should begin with language as approved in the master syllabus but may be added to at the discretion of the faculty member.