



## Course Proposal for Board Approval

Department: **Agriculture**

The department intends to **add a class** for the upcoming school year.

Course title: **Livestock Production, Products & Processing**

The course will be a(n) **Elective** class that lasts a **Semester**.

Grade levels eligible for enrollment: **Grade 10, Grade 11, Grade 12**

Prerequisites if any: **Vet Science 1**

Describe how the course aligns with the department's vision and mission: **This course is intended to give students an opportunity to explore the livestock industry & its entirety. Being an informed consumer of where our food comes from is an essential base set of knowledge that many people lack.**

Identify the content standards: **AS.02.02. Analyze procedures to ensure that animal products are safe for consumption.**

**AS.03.02. Analyze feed rations and assess if they meet the nutritional needs of animals.**

**AS.04. Apply principles of animal reproduction to achieve desired outcomes for performance, development and/or economic production.**

**AS.05.01. Design and evaluate animal housing, equipment, and handling facilities for the major systems of animal production.**

**AS.08. Analyze environmental factors associated with animal production.**

Outline the major concepts included in the course: **Intro to livestock production & history (1 week)**

**Livestock Nutrition & Feed Formulation (2 Weeks)**

**Reproduction & AI Technology (2 Weeks)**

**A series of units that will cycle through the beef, dairy, poultry, swine & sheep industry. The focus for each unit will be based on breeds & uses, products we get from each animal & the break down of the carcass after processed. Additionally, students will need to evaluate the quality of carcasses and determine the market value based on various indicators. Each of these units will be 2 Weeks.**

**Livestock Housing & Operations (2 week)**

Describe the learning activities: **Dissection of reproductive anatomy, practice artificial insemination, designing a hypothetical livestock operation, utilizing LivestockJudging.com to evaluate carcasses, making feed rations to meet dietary needs of animals**

Describe how the course aligns with the current scope and sequence. **This course will round out the proposed animal sciences pathway for the ag department. It will provide a focus on livestock production rather than veterinary practices.**



The methods for evaluation include: **Students will be given conceptual knowledge unit tests each unit. Additionally, students will be given skills tests when needed. For example, properly performing artificial insemination, formulating a feed ration, etc.**

The criteria for intervention and/or enrichment include: **Students who are unable to complete common formative assessments with mastery, students will be pulled in for intervention. These formative assessments will be given on a regular basis for accurate monitoring.**

Additional supplies and equipment with an estimate: **N/A**

Required text for review: **N/A**

Additional information: **N/A**

Department Member's Signatures of Support:

Date: