**Cassville High School**

**Course Competencies (ELO’s)**

Course Name: Agriculture Science I

Mark which semester the ELO is taught in. In the “Mastery Level” column, please place the expected mastery level for the ELO. This should be a well thought out % and evaluated annually when your data analysis has been completed.

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| **Semester** | **ELO** | **Mastery**  **Level** |
| 1st | 1. The student will learn about the opportunities that are offered through leadership opportunities with the National FFA Organization. | 70% |
| 1st | 1. Students will create a report highlighting various careers in the agriculture industry. | 70% |
| 1st | 1. Students will work to develop his or her SAE Program and set goals for the growth of their SAE. | 70% |
| 1st | 1. Students will explain the difference between ruminant and monogastric animals, the nutrition that these animals require, and how to correctly balance their nutritional needs. | 70% |
| 1st | 1. Students will describe the parts of the male and female reproductive tract and how these parts function in the gestation and parturition of livestock | 70% |
| 1st | 1. Students will describe the importance of the beef industry to Missouri, explain the difference in beef breeds, how to select beef cattle, and understand herd health. | 70% |
| 1st | 1. Students will describe the sheep/goat industry and management of those animals. | 70% |
| 1st | 1. Students will describe the importance of the dairy industry to Missouri, explain the difference in dairy breeds, how to select dairy cattle, and understand herd health. | 70% |
| 1st | 1. Students will describe the importance of the swine industry to Missouri, explain the difference in swine breeds, how to select swine, and understand herd health. | 70% |
| 1st | 1. Students will demonstrate the use of the Missouri Agriculture Record Book and create a budget, inventory, financial statement, and track receipts and expenditures. | 85% |
| 2nd | 1. Students will describe the importance of the poultry industry to Missouri, demonstrate selection and evaluation of poultry, describe the difference in poultry production systems, and understand the difference in poultry reproduction versus other livestock. | 70% |
| 2nd | 1. Students will describe the different breeds and uses of horses, selection and conformation traits, and demonstrate how to handle horses. | 70% |
| 2nd | 1. Students will participate in a Career Development Event or participation in the AgriScience Fair. | 70% |
| 2nd | 1. Students will understand the importance of animal products, how various livestock species are processed, and learn basic animal product identification. | 70% |
| 2nd | 1. Students will identify common tools used in the metal shop and safely demonstrate the use of the arc welder and oxy-acetylene cutting torch. | 70% |