

COURSE NUMBER: 403
COURSE TITLE: Agricultural Science, Technology and Marketing IV
COURSE LENGTH: Year, Two Credits
PREREQUISITE: None
GRADE LEVEL: 12

COURSE DESCRIPTION:

This year relies heavily on previous agriculture courses. All students will study for and take the Private Pesticide Test. A food technology unit covers the area of Food Processing which occurs between the producer and the consumer. Other units include Farm Management, Agribusiness procedures, Marketing, Insurance, Etc. Also Artificial insemination and Commodities Markets. A short unit on Bio Mass energy will be included. Students will discuss everything from burning corn stalks to ethanol fuel production. Several short units have been added such as BT Corn and Round-up Resistant Bean units. Using current farm magazines and the Internet gives the class up to the minute information on current ag issues. **Articulation with community colleges is possible for those taking this course.**

COURSE RATIONALE:

Units in Agricultural Science IV will allow the student to develop business knowledge that will aid in decision making and analysis of an agriculture enterprise.

METHOD OF INSTRUCTION:

No textbooks are available. Presentations will be from lecture, current farm magazines and the internet. The Problem Method of Teaching will involve Student Supervised Occupation Experience Program. The FFA contest area "Ag Issues and Perceptions" is used to make students aware of current agriculture situations.

ASSESSMENT:

Daily assignments, notebook, SOE Project Records and Unit Test.

CRITICAL OBJECTIVES:

1. identify the parts of the reproductive tract
2. explain the procedure of artificial insemination
3. identify the reproductive cycle of various farm animals
4. analyze individual enterprises
5. choose a record keeping system
6. identify the application of insurance policies and coverage.
7. understand the importance of coverages
8. use business procedure that will allow a profitable farm or agribusiness operation
9. define the terms of Futures Marketing
10. use the Future Contract alternatives in marketing
11. identify the hazards to the environment and become aware of the proper and alternate methods of pest control
12. develop safe pesticide hauling practices
13. identify bio mass energy and know why this is important in Iowa
14. take the Private Pesticide Test
15. understand and work the internet