

COURSE NUMBER: 402
COURSE TITLE: Agricultural Science III
COURSE LENGTH: Year, Two Credits
PREREQUISITE: None

GRADE LEVEL: 11 or 12

COURSE DESCRIPTION:

This year involves a variety of units ranging from soil chemistry and fertility, livestock nutrition and landscaping. Agribusiness is discussed during this year, two units in Ag. III will allow the student to obtain knowledge and skills in agronomy and conservation that will serve as a foundation for occupational entrance or further education. A short unit on safety of liquid petroleum systems will be included. Job seeking and interviewing skills are strengthened. The landscaping unit will familiarize students with tree and shrub species. **Articulation with community colleges is possible for those taking this course.**

COURSE RATIONALE:

Units in agricultural science III will expose students to career opportunities in agricultural fields related to agronomy, with emphases is in soils and soil conservation. Job seeking and job keeping skills are important throughout life

METHOD OF INSTRUCTION:

No textbooks are available. All materials will be presented by lecture, class demonstrations, and the problem method. Reinforcement will be from student class activities, FFA Proficiency Areas and Supervised Occupational Experience Program of the students. Landscaping and selection of landscape materials will be taught and a team of students will compete in the State FFA Landscape and Management Contest.

ASSESSMENT:

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

CRITICAL OBJECTIVES:

1. identify the major soil associations
2. establish a farm land usage based on the Crawford County Soil Survey
3. take a soil test
4. interpret the soil test results
5. adjust cultural practices of fertility to recommendations
6. determine soil use classification
7. determine nutritional need and requirements of livestock and pet species
8. understand species digestive systems
9. balance a ration using natural and inorganic sources
10. use growth stimulants
11. understand operation and calibration of implements
12. develop job seeking skills, resumes, interview procedures, and job keeping skills
13. develop basic salesmanship skills
14. explore radio broadcast opportunities relating to agriculture
15. explain the operating procedure of a liquid petroleum system
16. identify 45 shrubs, trees and ground cover
17. select quality landscape material