

AGRICULTURAL SCIENCE

Course Outline

This course outline has been prepared in conjunction with the State of California Agricultural Framework.

The teacher of this course is directed to refer to the Framework for a more detailed explanation and analysis of the topics contained in this outline.

COURSE TITLE:

Agricultural Science

COURSE DESCRIPTION:

This course will assist in the development of student's knowledge of the local agricultural and animal industries and the skills necessary for careers in these areas. Each student will maintain a supervised agriculture experience program (project) in relation to his level of advancement in the school's agriculture program and in line with state curricular guidelines.

COURSE OBJECTIVES:

1. The student will be able to recognize the needs of the animal industry as well as the crop industry in California.
2. Supply students with the knowledge and skills required for entry into and successful progress in those agricultural occupations that do not require education beyond the secondary school level.
3. Prepare students for advanced post-secondary level vocational education in agriculture.
4. Enable students to acquire an understanding of the economic and social impact of the agricultural industry upon society and its relationship to agriculture in general.
5. Provide the agricultural industry with appropriate number of persons adequately prepared for successful employment in those occupations which presently exist and which are developing in the industry.

LENGTH OF COURSE:

One year

GRADE LEVEL:

10 - 12

PREREQUISITES:

Introduction to Agriculture.

CREDIT:

10 units of elective or Practical Arts; may not be repeated for credit.

Note: One year of Introduction to Agriculture, one year of Veterinary Science, and one year of Agricultural Science satisfy one year of Life Science.

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I. FUTURE FARMERS OF AMERICA LEADERSHIP AND PLANNING

- A. S.O.E.P. Planning
- B. Leadership Development
- C. Proficiency Award Application
- D. Public Speaking

II. ANIMAL PRODUCTION

- A. Livestock Handling
- B. Livestock Nutrition and Feeds
- C. Production Cycles and Husbandry of:
 - 1. beef, swine, and sheep
 - 2. dairy
 - 3. poultry
 - 4. dairy goats
 - 5. horses
- D. Animal Waste Management
- E. Small Animal Handling

III. CROP PRODUCTION

- A. Identification of Crops, Products, and By-products
- B. Soil Preparation and Planting
- C. Fertilizers
- D. Irrigation and Drainage
- E. Pruning
- F. Pest Management

IV. MANAGEMENT

- A. Planning an Agricultural Enterprise
- B. Agricultural Production Records

- C. Marketing of Agricultural Products
- D. Financing the Agricultural Business
- E. Personnel Management
- F. Agriculture Computation and Measurements

V. CAREER EXPLORATION

TEXTBOOK:

Gillespie, James R., Modern Livestock and Poultry Production
Delmar Publishers Inc., 3rd edition, 1989.

ADDITIONAL MATERIALS:

Board Adoption Date: May 25, 1989

REVISION: May 10, 1994