



**The Agriculture Science Program** is a unique opportunity for students who are interested in any Agriculture or related occupations. The Agricultural Business Management - Plant Science program is designed to prepare students for employment in various production, sales, and supplier positions related to plant sciences. Students completing this program will possess the technical knowledge and skills associated with plant production, marketing, and sales positions. In addition to the required technical skills, students will possess leadership skills, advanced employability skills, critical thinking skills, applied academics, and life management skills. There are 4 levels of Agriculture classes that are offered At DHS as well two levels of classes in Ag. Mechanics Welding. If you achieve a high level of academic and hands-on success in the program, you may be eligible for a paid internship as a senior; working with agriculture related businesses

## **Introduction to Agriculture Science**

**(AG I) 9 Yr.**

Students will learn how agriculture plays a key role in the U.S. and world economy and will have “hands on” instruction in plant and animal sciences, mechanics, and leadership development. A Supervised Agricultural Experience Program (SAE) is required for all students. Students will participate in the FFA where they will receive premier leadership skills for career success.

## **Applied Biological Systems**

**(Ag II) 10 Yr.**

The study of the biological systems and how they interact within our environment. This course involves the study of the different plant and biological systems and how they function. This involves the study of the scientific principles as they relate to nutrition, growth and reproduction of plants and animals.

Acceptable for college lab science credit with Intro to Agriculture Science

Prerequisite: Introduction to Applied Biological Systems

## **Agriculture Business Mgt. I**

**(Ag III) 11-12 Yr.**

This course focuses on plant sciences, specifically with plant production in the greenhouse. Units include plant growth and development, hydroponic plant production, plant propagation, floriculture, plant nutrition, plant pests, greenhouse management, plant biotechnology, etc. Students will be required to maintain an SAE. Leadership development is provided through FFA. Instruction will be given in the advanced skills of using MS Word, MS Excel, and MS Power Point.

Prerequisite: Completion of Applied Biological Systems

## **Agriculture Business Mgt. II**

**( AG IV) 11-12 Yr.**

Students in this course will learn the principles of marketing, profit maximizing, farm business management, and the use of computers. FFA activities are emphasized. Approved Supervised Occupational Experience is required. Can be taken for dual credit. Meets Cochise College requirement

Prerequisite: Agriculture Business Mgt. I or any other Agriculture course with agriculture teacher recommendation.

## **Agricultural Mechanics I 10-11 Yr.**

Instruction includes the safe use of hand tools, portable power tools and stationary power equipment. Emphasis will be given to welding basic welding of joints used in the construction of structural steel. Students will acquire skills in Arc Welding and Gas Welding, and the proper use of the cutting torch.

Prerequisite: Completion of Applied Biological Systems

## Agricultural Mechanics II 11-12 Yr.

Instruction includes the safe use of hand tools, portable power tools and stationary power equipment. Emphasis will be given to welding advanced welding of joints used in the construction of structural steel. Students will acquire skills in Arc Welding and Gas Welding, and MIG Welding and the proper use of the cutting torch.

Can be taken for dual credit. Meets Cochise College requirement

Prerequisite: Completion of Ag. Mechanics I