

Principles of Agriculture, Food, and Natural Resources

Grade Placement: 9–12 Credit: 1 Prerequisite: None.

This hands-on interactive introductory course provides students with opportunities to learn basic knowledge and skills in many facets of the Texas Agriculture Industry: plant production, swine, cattle, sheep, goats, poultry and Agriculture Mechanics. Additionally, students will learn about the FFA Organization and opportunities for supervised agriculture work experiences.

Floral Design

Grade Placement: 9–12 Credit: 1 Prerequisite: None.

Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

Note: This course satisfies a fine arts credit requirement for students on the Foundation High School Program.

Advance Floral Design

Grade Placement: 11–12 Credit: 1 Prerequisite: Floral Design.

In this course, students build on the knowledge from the Floral Design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course focuses on building skills in advanced floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event. Through the analysis and evaluation of various occasion and event types, students explore the design needs and expectations of clients and propose and evaluate appropriate creations. From conception to evaluation, students are challenged to create and design appropriate specialty floral designs that meet the needs of the client. Furthermore, an emphasis on budgetary adherence and entrepreneurship equips students with many of the necessary skills needed for success in floral enterprises.

Advance Plant and Soil Science

Grade Placement: 11–12 Credit: 1 Prerequisite: None. Recommended Prerequisites: Biology, Integrated Physics and Chemistry, Chemistry, or Physics and a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster.

Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace.

Note: This course satisfies a science credit requirement for students on the Foundation High School Program

Practicum in Agriculture, Food, and Natural Resources (2 Periods)

Grade Placement: 11–12 Credit: 2 Prerequisite: None. Recommended Prerequisite: A minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster.

The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. A research project is required. This course is recommended for students in Grade 12. The practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in Agriculture, Food, and Natural Resources Program.