

# Agriscience

## Floraculture

Grades 11,12

1 Trimester | .5 Credit

This course introduces students to the principles and practices of floriculture and plant science, emphasizing plant growth, propagation, and floral design techniques. Students will explore the structure and function of plants, environmental factors affecting plant growth, and sustainable floriculture practices used in the green industry. Hands-on lab and design experiences will develop technical and creative skills in floral arrangement, plant care, and greenhouse management. Throughout the course, students will apply plant science concepts to real-world floriculture projects and industry scenarios. The course culminates in the opportunity to earn the iCEV Floral Design Certification, demonstrating mastery of professional standards in floral artistry, design elements, and industry safety.

## Food Science

Grades 10, 11, 12

1 Trimester | .5 Credit

This course explores the science behind the food you eat and how raw agricultural products are transformed into the foods we enjoy everyday. Through hands-on labs and experiments, students will investigate the chemistry and biology of food - from how ingredients interact during cooking to how preservation methods keep food safe and fresh. This course also examines topics such as nutrition, food quality, and sustainability, while introducing students to careers in food science, agriculture, and biotechnology. Designed for curious minds and future scientists alike, this course offers a fun, interactive way to connect the farm, the lab, and a table.

## Plants and Wildlife

Grades 9,10,11,12

2 Trimesters | 1 Credit

This course is designed to provide students with an intermediate understanding of plants and wildlife and the interactions among them. This course studies the relationship between living organisms (plants and animals) and their physical environment, including how they interact with each other within that environment. Students will have a greater understanding of the connectivity of the agricultural industry and evaluate the effects of agriculture on the world around them. Students will have the chance to further develop their knowledge base through guest speakers, field trips, various labs and projects. By the end of this course, students will have a greater understanding and appreciation for the natural resources systems and their effects on plants and wildlife. FFA topics and events will be covered in this class, therefore FFA membership is required.

## Veterinary Science

Grades 11,12

2 Trimesters | 1 Credit

### **Prerequisites: Biology, Zoology (recommended) and/or Instructor Approval**

This course introduces students to the basics of veterinary science, including animal anatomy, physiology, disease prevention, treatment practices, animal care and ethics. Designed for students interested in veterinary medicine, animal biology or animal care careers. The course provides a combination of theoretical knowledge, practice skills and real-world application. Students will have the chance to further develop their knowledge base through guest speakers, field trips, various labs and projects. FFA Topics and events will be covered in this class, therefore FFA membership is required.

## **Zoology**

Grades 9,10,11,12

2 Trimesters | 1 Credit

This course is designed to provide students with an intermediate understanding of the Animal Science Industry. Animal Science is a biological science that studies the management and biology of animals, with the goal of improving the lives of both animals and humans. Students will have a greater understanding of the connectivity of the agricultural industry and evaluate the effects of agriculture on the world around them. Students will have the chance to further develop their knowledge base through guest speakers, field trips, various labs and projects. By the end of this course, students will have a greater understanding and appreciation for the animal agriculture industry as it relates to the world around them. FFA topics and events will be covered in this class, therefore FFA membership is required.