HHS AGRISCIENCE

RICH PAST
BRIGHT FUTURE

Agriscience Course Descriptions

Introduction to Agriculture, Food, and Natural Resources (AFNR) introduces students to the wide range of agricultural career opportunities and the pathways of study they may pursue. Students utilize science, mathematics, reading, and writing skills as they engage in hands-on agriscience investigations. They will use the introductory skills and knowledge developed in this course throughout the CASE™ curriculum.

Principles of Agricultural Science—Animal is a foundation-level course engaging students in hands-on laboratories and activities to explore the world of animal agriculture. During the course, students develop a comprehensive Producer's Management Guide for an animal of their choice.

Principles of Agricultural Science—Plant is a foundation-level course teaching students the form and function of plant systems. Students experience various plant science concepts through inquiry-based exercises filled with activities, projects, and problems utilizing laboratory and practical experiences. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting.

Animal and Plant Biotechnology, a specialization course in the CASE Program of Study, provides students with experiences in industry appropriate applications of biotechnology related to plant and animal agriculture. Students will complete hands-on activities, projects, and problems designed to build content knowledge and technical skills in the field of biotechnology.

Ag Seminar/Mechanics: The Agricultural Mechanics course develops knowledge and technical skills in the broad field of agricultural machinery, equipment, and structures. Topics include general safety, agricultural engineering career opportunities, hand/power tool use and selection, welding fundamentals, electrical safety and circuitry, land measurement and surveying, soil and water management, and leadership development.

Agriculture Landscape and Turf Management. Students enrolled in the this course will examine and employ the materials, tools, techniques, and applications to design, create, and maintain a garden, greenhouse, landscape, and hardscape.

Veterinary Science is designed to provide students with an opportunity to study the science of veterinary medicine, including animal anatomy and physiology, animal health, nutrition, and cause/prevention of disease. Students will learn various veterinary laboratory skills, aseptic and surgical procedures, basic radiology, and scientific research and writing skills.

Agriculture Capstone/Work Experience is a course designed to facilitate students interested in working in the field of agriculture by facilitating their work experience during the senior year. The students will be work in an industry related to their desired field of choice and be supervised by a member of the agriscience department.