

Agricultural Science

Introduction to Ag Science (.5 Credit)

This course is usually taken in the freshman year. This is a basic introductory course designed to introduce beginning students to global agriculture. It includes agricultural career development, leadership, communications, and personal finance. *This course enables students to learn the process of raising and showing livestock.*

Grade level: 9-12

Textbook: Agriscience: Fundamentals and Applications. [Delmar Publishers](#)

Applied Ag Science & Technology (.5 Credit)

This course is usually taken in the freshman year. This is a basic applied course designed to enhance the agricultural comprehension of beginning students. It includes soils, plants, animals, agricultural construction, food science, supervised occupational experience programs, and leadership. *This course is required for students who wish to show livestock.*

Grade level: 9-12

Textbook: Agriscience and Technology. Delmar Publishers

Introduction to Ag Mechanics (.5 Credit)

This course introduces students to a wide variety of mechanical skills needed in agriculture. Skills will be developed in areas of tool identification, carpentry, electricity, plumbing, masonry, painting, metal work and welding processes.

Grade level: 9-12

Textbook: Agricultural Mechanics: Fundamentals and Applications. [Delmar Publishers](#)

Ag Metal Fabrication Technology (.5 Credit)

This course is designed to develop skills in metal equipment assembly and joining processes. Career opportunities, leadership development, and project construction will be some of the emphasis. Lab work will consist of safety, maintenance of tools, equipment, and skill development in many areas of metal production.

Grade Level: 9-12

Floral Design (.5 Credit)

This course is designed to develop skills in the design and arrangement of flowers, foliage, and related plant materials for interior locations.

Grade level: 9-12

Introduction to Horticultural Science (.5 Credit)

This course is designed as an introduction to horticultural sciences with emphasis on technical skills, entrepreneurship, and career opportunities.

Grade Level: 9-12

Wildlife & Recreation Management **(.5 Credit)**

A course designed to examine the importance of wildlife and outdoor recreation with emphasis on using wildlife and natural resources. Students may earn Hunter's Safety and Boater's Education Certifications.

Grade level: 9-12

Personal Skills and Development **(.5 Credit)**

A course designed to be prepared for careers in leadership development systems, students need to attain academic skills and knowledge, to acquire knowledge and skills related to leadership development systems and the workplace, and to develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need to have opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Grade level: 9-12

Work-Based Learning **(One to Three Credits)**

To be prepared for careers in the broad field of agriculture/agribusiness, students need to attain academic skills and knowledge, to acquire knowledge and skills related to agriculture/agribusiness and the workplace, and to develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need to have opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Grade level: 12