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Tri-Valley High School Agriculture Classes

Agriculture Education

707 Agriculture, Food and Natural Resources

Grade 9 (only or first year in agriculture program) 1 year/1 credit

This class is an introduction to Agricultural and Environmental Systems career field. Students will obtain fundamental knowledge and skills in food science, natural resource management, animal science & management, plant & horticultural science, power technology and biotechnology. Students will be introduced to the FFA organization and begin development of their leadership ability. FFA participation is expected as an extension of the classroom learning to provide leadership and competitive activities and is counted as part of the classroom grade. An agriculturally related project outside the classroom called a Supervised Agricultural Experience project is required as a part of the total program and is counted towards the classroom grade.

Required: FFA membership - dues 20.00

Fee: 10.00 TOTAL: 30.00

708 Veterinary Science

Grades 11, 12 1 year/1 credit

Students will develop knowledge of veterinary pharmacology, radiology and imaging techniques, principles of surgery, safe laboratory skills, and the concepts of ethics and professionalism in the work place. Student will describe causes, symptoms, and treatment of common diseases with special emphasis on developing preventative health management plans and breeding programs. Learners will research issues affecting the industry. FFA participation is expected as an extension of the classroom learning to provide leadership and competitive activities and is counted as part of the classroom grade. An agriculturally related project outside the classroom called a Supervised Agricultural Experience project is required as a part of the total program and is counted towards the classroom grade.

Prerequisite: Agriculture, Food and Natural Resources or instructor permission

Required: FFA membership - dues 20.00

Fee: 10.00 TOTAL: 30.00

709 Natural Resources

Grade 10, 11, 12 1 year/1 credit

Students will apply science principles and management practices to the protection of renewable

and non-renewable natural resources. Students will learn fundamentals of land use as well as watershed, wildlife, fishery and forest management. Students will be introduced to management practices related to managing air and water quality along with requirements for managing solid and liquid waste. Communications, business principles and leadership skill development are essential to the program. FFA participation is expected as an extension of the classroom learning to provide leadership and competitive activities and is counted as part of the classroom grade. An agriculturally related project outside the classroom called a Supervised Agricultural Experience project is required as a part of the total program and is counted towards the classroom grade.

Prerequisite: Agriculture, Food and Natural Resources or instructor permission

Required: FFA membership - dues 20.00

Fees: 10.00 TOTAL: 30.00

710 Science and Technology of Food

Grade 10, 11, 12 1 year/ 1 credit

This first course in the pathway examines the research, marketing, processing and packaging techniques applied to the development of food products. Students will examine principles of food preservation techniques and determine correlations to food sensory, shelf life and food stability. Students will examine and develop food safety, sanitation, and quality assurance protocol. Government regulations and food legislation will be examined and the implications to food science and technology will be identified. This unit is taught with lots of laboratories and hands on activities. FFA participation is expected as an extension of the classroom learning to provide leadership and competitive activities and is counted as part of the classroom grade. An agriculturally related project outside the classroom called a Supervised Agricultural Experience project is required as a part of the total program and is counted towards the classroom grade.

Prerequisite: Agriculture, Food and Natural Resources or instructor permission

Required: FFA Membership - dues 20.00

Fees: 10.00 TOTAL: 30.00

711 Agronomic Systems

Grade 10, 11, 12 1 year/1 credit

This course focuses on the knowledge and skills required to research, develop, produce and market major agricultural and horticultural crops. Cultural and sustainable production practices will be examined. Students will apply scientific knowledge of plant development, nutrition and growth regulation. The knowledge and skills needed to manage water, soils, and pests related to agronomic crops will be learned. Students will learn these skills through laboratories and hands on experience. FFA participation is expected as an extension of the classroom learning to provide leadership and competitive activities and is counted as part of the classroom grade. An agriculturally related project outside the classroom called a Supervised Agricultural Experience project is required as a part of the total program and is counted towards the classroom grade.

Zane State College credit (if student attends Zane State after graduation)

Prerequisite: Agriculture, Food and Natural Resources or instructor permission

Required: FFA Membership – dues 20.00

Fee: 10.00 TOTAL: 30.00

712 Animal Science

Grade 10, 11, 12 1 year/1 credit

Students will develop business leadership, problem-solving and communication skills in relation to the science and technology of animals. Students will learn responsible animal management principles and routine husbandry practices in relation to animal welfare and behavior. Students will identify and describe the anatomy and physiology of monogastric and ruminant organisms as it applies to nutrition, reproduction, and animal health. Students will investigate animal genetics and how it impacts principles of animal improvement, selection and marketing. FFA participation is expected as an extension of the classroom learning to provide leadership and competitive activities and is counted as part of the classroom grade. An agriculturally related project outside the classroom called a Supervised Agricultural Experience project is required as a part of the total program and is counted towards the classroom grade.

Zane State College credit (if student attends Zane State after graduation)

Prerequisite: Agriculture, Food and Natural Resources or instructor permission

Required: FFA Membership – dues 20.00

Fee: \$10.00 TOTAL: 30.00

713 Agricultural and Environmental Systems Capstone

Grade 12 (only) 1 year/1 credit

To be in this class, you must be enrolled in another agriculture class at the same time and be a senior. You will need to have a job that you work at regularly. You will need to work a minimum of 450 hours at your job by the end of the year to receive credit. You will be evaluated at your work site and be made responsible for keeping records of your time and earnings. FFA participation is expected as an extension of the classroom learning to provide leadership and competitive activities and is counted as part of the classroom grade. An agriculturally related project outside the classroom called a Supervised Agricultural Experience project is required as a part of the total program and is counted towards the classroom grade.

Prerequisite: Instructor permission

Required: FFA Membership - dues 20.00

Fee: \$10.00 TOTAL: 30.00