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## **Indian Valley High School Agriculture Classes**

### **Agriculture Education**

#### **Agriculture, Food and Natural Resources**

0.5 science credit & 0.5 elective credit

Full Year

Fee: \$15.00

Prerequisite: None

This is the first course in the Agricultural and Environmental Systems career field. It introduces students to the pathways that are offered in the Agricultural and Environmental Systems career field. As such, learners 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.

#### **Animal Science and Technology**

0.5 science credit & 0.5 elective credit

Full Year

Fee: \$10.00

Prerequisite: Sophomore or above

Recommendation: Agriculture, Food and Natural Resources

In this course, learners 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. Learners will identify and describe the anatomy and physiology of monogastric and ruminant organisms as it applies to nutrition, reproduction, and animal health. Learners will investigate animal genetics and how it impacts principles of animal improvement, selection and marketing.

#### **Natural Resources**

0.5 science credit & 0.5 elective credit

Full Year

Fee: \$10.00

Prerequisite: Sophomore or above

Recommendation: Agriculture, Food and Natural Resources

In this course, learners 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.

### **Business Management for Agricultural and Environmental Systems**

1.0 elective credit

Full Year

Fee: \$10.00

Prerequisite: Juniors or Seniors

This is a level two course (Juniors/Seniors) in which learners will examine elements of business, identify organizational structures and identify and apply management skills. Learners will develop business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Learners will practice customer sales techniques and apply concepts of ethics and professionalism while understanding related business regulations.

### **Communications and Leadership 1.0 elective credit**

Full Year

Fee: \$10.00

Prerequisite: see description

Students will analyze attributes and capabilities of those in leadership positions and develop their communication and leadership skills in authentic situations. The course prepares students to apply journalistic, communication and broadcasting principles to the development, production, and transmittal of agricultural and environmental systems information. Students must have successfully completed at least one year of an agricultural education course, must be currently enrolled in another agricultural education course, and receive approval of the instructor.

### **Veterinary Science 1.0 science credit**

Full Year

Fee: \$10.00

Prerequisite: Biology

In this course, learners 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. Learners will develop skills in inquiry and statistical methods. Learners will describe causes, symptoms, and treatment of common diseases with special emphasis on developing preventive health management plans and breeding programs. Learners will utilize principals of technology to manage information systems, and research issues affecting the industry.

## **Supervised Agricultural Experience (SAE)**

0.25 elective credit

Full Year

Fee: None

Prerequisite: Enrollment in an Agricultural Education Course

SAE is the individual student application of experiential learning, outside the classroom, of knowledge and skills acquired through the instructional component. SAE is under the supervision of the agricultural teacher, and an employer or parent/guardian. There are various categories of SAE from which students may choose. A student with an ownership SAE activity owns and manages his/her own business. A student participating in placement SAE activity is involved in an employment or internship situation. Research SAE activities allow students opportunities to engage in independent, yet supervised research projects. The interaction of the student, teacher, business site, and parents' helps to ensure instruction is relevant to each individual student in his/her own learning environment. Credit will be awarded on a pass/fail basis.