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Hiland High School Agriculture Classes

Vocational Agriculture

Course Name: Agriculture, Food & Natural Resources

Department: Vocational

Course Length: Year

Course Number 174

Credit Value: 1 Credit

Special Requirements: None

Course Description:

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 (shop projects) and biotechnology. Students will be introduced to the FFA organization, and begin development of their leadership ability. Students will also be introduced to Supervised Agricultural Experience projects, and begin plans to start their own SAE. Students enrolled in this class are required to become members of the National FFA Organization, and earn the Greenhand FFA Degree. Students will also have opportunities to attend FFA Conventions, camps, leadership activities, and more.

Course Name: Animal Science & Technology

Department: Vocational

Course Length: Year

Course Number 274

Credit Value: 1 Credit

Special Requirements: None

Course Description:

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. Students will continue to maintain their SAE project in good standing. Students are required to continue membership in the National FFA Organization. Students will have opportunities to attend FFA Conventions, camps, leadership activities, and more. This course meets

requirements for the Science of Society

Course Name: Plant & Horticulture Science

Department: Vocational

Course Length: Year

Course Number 275

Credit Value: 1 Credit

Special Requirements: None

Course Description:

This first course in the pathway focuses on the broad knowledge and skills required to research, develop, produce and market agricultural, horticultural, and native plants and plant products. Students will apply principals and practices of plant physiology and anatomy, plant protection and health, reproductive biology in plants, influences in bioengineering, plant nutrition and disorders. Environmental aspects of irrigation, chemical application, soils, and pest management will be studied and applied. Projects and activities will enable students to develop communication, leadership, and business management skills. Students will continue to maintain their SAE project in good standing. Students are required to continue membership in the National FFA Organization. Students will have opportunities to attend FFA Conventions, camps, leadership activities, and more. This course meets requirements for the Science of Society

Course Name: Business Management For Agriculture

Department: Vocational

Course Length: Year

Course Number 276

Credit Value: 1 Credit

Special Requirements: None

Course Description:

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. Students will continue to maintain their SAE project in good standing. Students are required to continue membership in the National FFA Organization. Students will have opportunities to attend FFA Conventions, camps, leadership activities, and more.

Course Name: Communication & Leadership

Department: Vocational

Course Length: Year

Course Number 374

Credit Value: 1 Credit

Special Requirements: None

Course 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 will continue to maintain their SAE project in good standing. Students are required to continue membership in the National FFA Organization. Students will have opportunities to attend FFA Conventions, camps, leadership activities, and more.

Course Name: Science & Technology Of Food

Department: Vocational

Course Length: Year

Course Number 375

Credit Value: 1 Credit

Special Requirements: None

Course Description:

This first course in the pathway examines the research, marketing, processing and packaging techniques applied to the development of food products. Learners will examine principles of food preservation techniques and determine correlations to food sensory, shelf life and food stability. Learners 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. Students will continue to maintain their SAE project in good standing. Students are required to continue membership in the National FFA Organization. Students will have opportunities to attend FFA Conventions, camps, leadership activities, and more. This course meets requirements for the Science of Society.

Course Name: Structural Engineering

Department: Vocational

Course Length: Year

Course Number 376

Credit Value: 1 Credit

Special Requirements: None

Course Description:

Students will apply principles of engineering and design along with an understanding of the properties and uses of construction materials to buildings and structures used in agriculture, horticulture and natural resources. The course will focus on the study and utilization of wood and lumber, metals, concrete and masonry, pipes and plumbing, and electrical systems. Students will design, plan, build and calculate costs-benefits analysis for construction projects while abiding by all building code and safety regulations. Students will continue to maintain their SAE project in good standing. Students are required to continue membership in the National FFA Organization. Students will have opportunities to attend FFA Conventions, camps, leadership activities, and more.