

AGRI-BUSINESS (006)

Information provided includes course descriptions by subject only. For complete 2024-2025 programs/academic plans, please refer to Academic Programs (<http://catalog.blackhawk.edu/academics/>).

006-102 Emerging Agriculture Technologies

Credits: 1-2

This course provides classroom and field experience to expose students to the latest developments in agricultural technology for agribusinesses applications. Emphasis will be geared toward providing students experience in technical problem-solving for agri-businesses and farm operations.

Aid Code: 10 - undefined.

Complete Course Listing

006-103 Agricultural Commodity Marketing

Credits: 0.5-1

Learners will develop an understanding of the principles of marketing relative to basic economic theory. We will examine the marketing process from production through delivery to the ultimate consumer including product differentiation, direct marketing, and competitive advantage.

Aid Code: 10 - undefined.

Complete Course Listing

006-105 Nutrient Management

Credits: 1-3

This course will focus on profitable crop production methods using commercial products, nutrient credits, and rotational practices. Students will learn how to interpret soil test reports, balance soil pH, meet nutrient requirements, and make product recommendations based upon economic, environmental, and legal criteria. Students will learn to manage nutrients based on the use of a computer software program called Snap Plus, and will complete a nutrient management plan utilizing real farm data.

Aid Code: 10 - undefined.

Complete Course Listing

006-106 Agribusiness Occupational Experience

Credits: 0.5-1

The course is an opportunity for students to gain hands-on experience with agribusinesses within their area of interest or as career exploration. Participants will build a network of potential employers upon completion of the Agribusiness Specialist program.

Aid Code: 10 - undefined.

Complete Course Listing

006-107 Pest Management:Applicator Training

Credits: 1-3

Students will apply principles and methods used in the control of pests found in the production of agricultural commodities. Preparation for the Wisconsin Commercial Pesticide Applicator licensing will include: restricted use regulations, applicator safety, environmental safety, equipment calibration, and product label interpretation. Course topics also include: pesticide mode of action, interpretation of aerial photos, and integrated pest management (IPM).

Aid Code: 10 - undefined.

Complete Course Listing

006-116 Introduction to Soils

Credits: 1-3

This course provides fundamental knowledge of soils and growth media. Course topics include soil formation and development, soil components, soil profile, soil classification, and soil conservation. Participants will experience soils concepts through the completion of hands-on activities.

Aid Code: 10 - undefined.

Complete Course Listing

006-160 Introduction to Plant Science

Credits: 1-3

This course provides fundamental knowledge of plant components and their functions. Topics include pollinating and propagating plants, germinating seeds, plant nutrients, and factors affecting photosynthesis, respiration, and transpiration. Participants will experience plant components and their functions through the completion of hands-on activities.

Aid Code: 10 - undefined.

Complete Course Listing

006-162 Farm Records and Business Management

Credits: 1-3

This course emphasizes the practical use of a record management system in managing a farm or agribusiness. Students will create business goals and analyze the use of credit as well as simulate business arrangements, estate planning, and preparing income taxes. Students will create balance sheets, cash flows and income statements as they create an overall financial analysis of the farm or agribusiness.

Aid Code: 10 - undefined.

Complete Course Listing

006-164 Livestock Management

Credits: 1-3

This course focuses on the various aspects of selection, breeding, herd health, raising of replacement stock, reproductive physiology, and marketing of livestock and livestock products. Students explore topics that affect livestock management such as the selection, operation, and maintenance of farm buildings, milking, feeding, and ventilation as well as manure handling equipment. Students will be able to analyze and prepare for a myriad of aspects that are included in the management of livestock.

Aid Code: 10 - undefined.

Pre-requisites: (006-180)

Complete Course Listing

006-165 Livestock Nutrition

Credits: 1-3

This course emphasizes the skills, techniques and concepts necessary for sound feeding management. Students engage in the practice of calculating feed values and pricing, as well as consumption requirements for livestock. Students also investigate necessary information from feed tag labels and base feeds as they create simulated feeding programs for specific livestock with special attention given to the metabolic diseases of lactating animals. Through the use of basic ration balancing concepts, students will be able to create simple rations for specified livestock.

Aid Code: 10 - undefined.

Pre-requisites: (006-180)

Complete Course Listing

006-166 Precision Agriculture Technologies

Credits: 1-3

This course provides an introductory overview of precision farming concepts and the tools of precision farming (GPS, GIS and VRT). Students will engage in the use of each of these tools within the processes of a precision farming system. Students will participate in several simulated hands-on activities using actual farm data to be able to properly use these tools in a real world agricultural setting.

Aid Code: 10 - undefined.

Pre-requisites: (006-102)

Complete Course Listing

006-180 Introduction to Animal Science

Credits: 1-3

The course provides fundamental knowledge of the animal science field. Topics include animal health, animal environments, anatomy and physiology, genetics and reproductions, animal feedstuffs, and job related safety. Participants will experience animal concepts through the completion of hands-on activities.

Aid Code: 10 - undefined.

Complete Course Listing

006-181 Crop Management

Credits: 1-3

Students will be introduced to all phases of the management and economics of crop production. Students will explore and analyze specific topics related to variety, selection, planting, pest control, harvesting, storage, and marketing. Students will engage in project based learning by developing a crop management plan which focuses on crop enterprise analysis and the production of a cropping budget.

Aid Code: 10 - undefined.

Pre-requisites: (006-160) and (006-107)

Complete Course Listing

006-197 Agribusiness Internship

Credits: 1-3

Students will have the opportunity to apply course work to a practical, on-the-job experience in an agricultural career setting. Students will create a portfolio that includes their engagement in research, report writing and reflection of the structure of the business, products that are sold and the importance of this agricultural field to the economy of our state and nation. Students will be able to apply this knowledge in their second year courses and as they continue to explore the various careers available in the agricultural sector.

Aid Code: 10 - undefined.

Pre-requisites: 006-200

Complete Course Listing

006-200 Ag Equipment Safety and Operation

Credits: 1-3

Students will demonstrate how to safely drive a tractor and farm equipment. Emphasis is on gaining understanding of general farm safety and safety in the workplace. Student will practice and demonstrate the use of personal protective equipment, humane cattle handling, crop harvest and storage, chemicals and fluid management, electrical safety, UTV safety and skid loader safety. Students will also apply basic maintenance practices to keep equipment safe and operational around the farm. This is a hands on course where students will get behind the wheel experience.

Aid Code: 10 - undefined.

Complete Course Listing

006-201 Career Development in Agriculture

Credits: 1-3

This course is designed to assist students in developing career leadership skills for the agriculture industry. Units of study include: goal setting, strengths finder, career opportunities, employment preparation, industry issues, and the role of professional organizations in agriculture.

Aid Code: 10 - undefined.

Complete Course Listing