

Agricultural Survey

Level: Regular First Semester Credit: ¼

Meeting Pattern: Every other day for one period

Prerequisite: Grades 9 10 11 12

Purpose and Content: Designed for busy students to get a chance to see what the diverse areas of agriculture have to offer. We will cover the areas of Animal Science, Plant Science, Natural Resources, Dairy Products, Economics and the FFA. The units will include dairy products, Wisconsin Ag Products, Economics in Ag, FFA, and production animals.



Landscape Management

Level: Regular First Semester Credit: ¼

Meeting Pattern: Every other day for one period

Prerequisite: Grades 10 11 12

Purpose and Content: In this class the students will be introduced to the elements of home and commercial landscaping. After learning basic techniques, students will make use of a CAD based design program used in the industry today. Students will also utilize digital cameras to take pictures of their home and develop a landscape plan. In addition to design, the students will gain knowledge of shrubs and trees commonly used in the landscape. Anyone interested in landscaping, drafting or designing their own landscape would benefit from this class. This class is articulated with Gateway for advanced standing in the Technical College system. *Gateway class:* 136 Landscape Management

Animal Science

Level: Regular First Semester Credit: ½

Meeting Pattern: Every day for one period

Prerequisite: Grades 9 10 11 12 * Biological Science Equivalency

Purpose and Content: This class will provide students with biological science in the large animal species. All farm production animal species will be discussed from cattle, pigs, and horses to turkeys, rabbits, cats, dogs and even bees will be discussed. The reproductive systems as well as digestive systems, genetics and the physiology of udder function will be highlighted.

Veterinary Science

Level: Regular Second Semester Credit: ½

Meeting Pattern: Every other day for one period

Prerequisite: Grades 10 11 12, Animal Science Recommended

Purpose and Content: This class will introduce the students to basic veterinary practices used in today's animal industries. Terminology and disease presentation and prevention will be discussed. Students will have the chance to take temperatures, do fecal cultures for parasites, and examine sperm cell motility, which are just a couple of the many labs students will take part in. Students will also practice giving shots to oranges and grapefruits due to the lack of willing recipients. The students will also study the birth, lactation and growth of the litters of baby pigs born in the large animal lab.



Botany

Level: Regular Second Semester Credit ½

Meeting Pattern: Every day for one period

Prerequisite: Grades 9 10 11 12 * Biological Science Equivalency

Purpose and Content: This class will introduce the student to the plant from germination to growth and flowering. The various life cycles will be studied as well as biotechnological techniques that are prevalent today. Students will utilize the greenhouse for enhanced laboratory experiences. Get your gardening gloves out and get prepared to discover one phenomenon after another. This class is articulated with Gateway for advanced standing in the Technical College system. *Gateway class:* 107 Plant Biology. This class taken with the PEAS class, is articulated for Advanced Standing with the *Gateway Class:* 001-141 Soil and Plant Nutrition.

Biotechnology

Level: Regular First Semester Credit: ½

Meeting Pattern: Every day for one period

Prerequisite: Grades 10 11 12 * Biological Science Equivalency

Purpose and Content: In this class students will explore applications of biotechnology after reviewing cells and DNA. Applications in the world of animals, plants, and the environment will be discussed. Students will have a chance to spool their own DNA, do a crime scene investigation, and study one of the fastest growing career fields today.

Leadership

Level: Regular Second Semester Credit: ¼

Meeting Pattern: Every other day for one period

Prerequisite: Grades 10 11 12

Purpose and Content: Do you know what it takes to be an effective leader? This class will study what contributes to a successful leadership role. Citizenship and individual personalities will be studied and applied. Students will get the chance to exercise leadership roles and to run affective meeting through Parliamentary Procedure. Everyone is born with leadership capabilities; this class will help students to understand how to unlock it and develop skills. Everyone will need leadership in their future career.

Marketing Commodities

Level: Regular Second Semester Credit: ¼

Meeting Pattern: Every other day for one period

Prerequisite: Grades 11 12

Purpose and Content: The Chicago Board of Trade; the Mercantile Exchange; where millions of dollars in commodities are traded everyday. Students will study supply and demand factors that affect agricultural commodities traded in the futures markets. By tracking daily price movements and studying economic factors, students will simulate trading commodities in the classroom. Can you make it in the lightning-paced world of being a commodity trader? Sign up for this class and find out.



Physical, Earth and Agricultural Science (PEAS)

Level: Regular First Semester Credit: ½

Meeting Pattern: Every day for one period

Prerequisite: Grades 9 10 11 12 * Physical Science Equivalency

Purpose and Content: From the soil to the food you eat, students will study the science involved in these areas. We start with the wonder of the soil and its ability to support life on this planet and move to the basic science of many of our foods. There will many labs and activities in this class, so if you don't mind getting your hands dirty and then washing up for supper, then come on in! This class is offered every other year alternating with the Environmental Science class. This class taken with the Botany class, is articulated for Advanced Standing with the *Gateway class*: 141 Soils and Plant Science

Environmental Science

Level: Regular First Semester in Alternate years with PEAS Credit: ½

Meeting Pattern: Every day for one period

Prerequisite: Grades 9 10 11 12 * Physical Science Equivalency

Purpose and Content: Students will study the science behind one of the fastest growing career areas in the world. The history of pollution will be discussed as well as pollution of the atmosphere, the water and solid wastes. The students will study the science behind the pollution of the atmosphere and water, and understand methods used to neutralize the effects of the pollutants. This class is offered every other year alternating with the Physical, Earth and Agricultural Science class.

Environmental Conservation

Level: Regular Second Semester Credit: ¼

Meeting Pattern: Every other day for one period

Prerequisite: Grades 9 10 11 12

Purpose and Content: Green energy! Global Warming! What does it all mean? Students will study the impact of humans on the environment and study ways to decrease that impact. Solid waste reduction, alternative energy sources, recycling, and renewable resources and plans to reduce or alter usage are discussed. This is an area where the jobs these students will have an opportunity to work in, haven't even been developed yet. This class should save parents money with the ideas these students bring home.



Greenhouse Management

Level: Regular Second Semester Credit: ½

Meeting Pattern: Every day for one period

Prerequisite: Grades 10 11 12 Botany recommended

Purpose and Content: It's a jungle out in our greenhouse. This one semester class is offered in the spring semester only. Students will learn the basics of plant production in a greenhouse setting. Students will spend the majority of their time in the greenhouse learning planting and germination techniques, management skills and operation of a computer-controlled greenhouse. Over fifty types of annuals are grown, managed and sold through this class. Students will also learn identification of plants, pest management and marketing. This class is articulated with Gateway for advanced standing in the Technical College system. *Gateway class:* 151 Greenhouse Crops

Fish and Wildlife Conservation

Level: Regular First Semester Credit: ¼

Meeting Pattern: Every other day for one period

Prerequisite: Grades 9 10 11 12

Purpose and Content: Explore the great outdoors! Students will study administration of Fish and Wildlife Management, hunting and fishing regulations are studied and as well as habitat of those animals. National and State Wildlife Refuges are studied as well as animal migratory habits. Students look at endangered species and contributing factors as well as learn the basics of wild fish populations. As the baby boomers get older, the jobs in the DNR will open for these students. Career areas will be discussed. Find out what it takes to get a job in the great outdoors or just appreciate them a little more.