

## 9<sup>th</sup> GRADE ELECTIVE OPTIONS FOR AHS

### AGRICULTURE

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

Grade(s) Offered: 9-12      **CREDITS/LENGTH: 1 / year**

Prerequisite: None

**Course Description:** Introduction to Agriculture, Food, and Natural Resources is an introductory course designed to teach students about the world of agriculture. Woven throughout the course are activities to develop and improve employability skills of students through practical applications. Students will explore post-secondary and career opportunities in each area of the course. Students' experiences will involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics.

**Background for Success:** Students should have a desire to learn about the agricultural industry including animals, plants, food science, natural resources, wildlife, & FFA

#### **Small Animal Care & Management**

Grade(s) Offered: 9-12      **CREDITS/LENGTH: 0.5 / sem**

Prerequisite: None

**Course Description:**

Students will learn various aspects of dog, cat, and rabbit animal care, identifying breeds of animals, and proper feeding/grooming techniques. Students will also explore numerous exotic pets and the cost to keep them in Minnesota. Students will also investigate the ever growing demand for jobs in the pet care industry and how to care for sick animals. Lastly, students will participate in the Small Animal Care Content sponsored by the FFA.

**Background for Success:** This class is great for any student who owns a pet or is interested in a career with companion animals

#### **Wildlife Management**

Grade(s) Offered: 10-12  
**CREDITS/LENGTH: 0.5 / semester**

**Course Description:** Students will receive a foundation in the ways of managing wildlife with a strong emphasis on large wildlife mammals of Minnesota. The issues surrounding a safe and well managed harvest will serve as the central focus. Students will be provided a historical perspective, characteristics and life cycles, habitat needs, habitat management, benefits to communities and the agriculture industry. Students will be expected to be active learners throughout each instructional unit. Careers in wildlife will be investigated.

**Background for Success:** Student should have a desire to learn more about MN wildlife, as well as basic science concepts

#### **Floral Design**

Grade(s) Offered: 9-12  
**CREDITS/LENGTH: 0.5 / semester**

**Course Description:** This class will show you what it takes to get started in the Floral Design Industry for a possible career and educate you on being a smart consumer. You will learn techniques to condition and treat both real and artificial flowers, bow construction, flower selection, proper use of tools, and how to follow the Principles of Design in order to make your work of art a success? Students will get hands on experience making their own designs including boutonnieres, corsages, and other free-standing designs!

**Background for Success:** Students should have a desire to learn more about the floral industry and gain hands-on experiences through projects.

### ART

#### **Studio Art**

Grade(s) Offered: 9-12      **CREDITS/LENGTH: 0.5 / semester**

Prerequisites: None

**Course Description:**

Studio Art is designed to provide an introduction to a variety of art experiences for students wishing to explore the possibilities of art. Students will have production experiences with a variety of materials and techniques, which may include: drawing, painting, printmaking, graphics, ceramics and sculpture. The emphasis will be on developing ideas and themes for art projects that have meaning and expressive value for the artist/audience.

**Background for Success:** Students will need strong work habits, a willingness to make good use of time, to put forth good effort into new experiences and patience with the whole process

#### **Basic Drawing**

Grade(s) Offered: 9-12      **CREDITS/LENGTH: 0.5 / semester**

Prerequisite: None

**Course Description:**

This course is an introduction into the art of drawing and is highly recommended as a first course for 9th graders. Students will be afforded the opportunity to learn how to create 2-dimensional work with various types of pencils and charcoal. Students will become familiar with different media and modes to help you create beautiful works of art.

**Background for Success:** Students should have patience, be goal oriented and have an eye for detail.

**SOCIAL STUDIES TOPICS**

**Modern World Events**

Grade(s) Offered: 9-12      **CREDITS/LENGTH: 0.5 / semester**  
 Prerequisite: None

**Course Description:**

Modern World Events is a one-semester elective course. This course is designed to examine current issues in the world. Students will examine modern issues and events, explain the history behind the modern issues and events, and predict how these issues and events may impact the future. Students will be expected to discuss and debate current topics, complete projects and assignments, and work independently and in groups. Students may take this course more than once as the course content changes due to current events.

**Criminal Justice**

Grade(s) Offered: 9-12      **CREDITS/LENGTH: 0.5 / semester**  
 Prerequisite: None

**Course Description:**

The Criminal Justice course is a one-semester elective course that offers a general survey of the American Criminal Justice System. Students will examine the history, function, and organization of crime, the police, the courts, and corrections. Students will be expected to discuss and debate topics in criminal justice, complete projects and assignments, and work independently and in groups.

**FAMILY & CONSUMER SCIENCE**

**Introduction to Foods**

Grade(s) Offered: 9-12  
**CREDITS/LENGTH: 0.5 / sem**

**Course Description:** This course is designed for students to participate in basic food selection and preparation. Students will learn about food safety and sanitation practices, time management, cost comparison, nutrients and how they function in the body. While in labs, students will demonstrate their skills that reflect regional and cultural food choices.

**Background for Success:** Basic reading and math skills, good attendance and a willingness to contribute and participate in group settings is important.

**Working with Young Children**

Grade(s) Offered: 9-12  
**CREDITS/LENGTH: 0.5 / semester**

**Course Description:** This course is for the student with a strong interest in early childhood education and careers related to preschool and young school age children. Students should be ready to study, research and plan activities and experiences for young children. Topics include storytelling, music, puppetry, and art. If the student takes Child Development AND Working with Young Children, and earns a "B" or better, the student may qualify for college credit through an articulation agreement.

**Background for Success:** Students need to have an interest in learning about working with and teaching young children

**Child Development**

Grade(s) Offered: 9-12  
**CREDITS/LENGTH: 0.5 / sem**

**Course Description:** This course is for a student with a strong interest in early childhood education and careers related to prenatal care, birth, babies, infants, and toddlers. You will study the science and psychology that is imbedded in the course. By taking Child Development AND Working with Young Children, and earning a "B" or better, the student may qualify for college credit through an articulation agreement.

**Background for Success:** Student need to have a desire to learn about children from prenatal to toddler stages.

**Exploring the Real World**

Grade(s) Offered: 9-10      **CREDITS/LENGTH: 0.5 / semester**

**Course Description:** This course will give students options to explore food/nutrition, communication skills, teen living/relationships, budgeting/spending, and housing. This course will introduce students to basic real-world skills.

**Background for Success:** Basic skills such as listening, following directions, math and reading are beneficial.

**Interior Design**

Grade(s) Offered: 9-10      **CREDITS/LENGTH: 0.5 / semester**

**Course Description:** Topics covered are the study of residential interiors, elements and principals of design, color and architecture.

**Background for Success:** Students should have an interest in creative designs.

**INDUSTRIAL TECHNOLOGY (continued next page)**

**Small Engines I**

Grade(s) Offered: 9-12      **CREDITS/LENGTH: 0.5 / semester**

**Course Description:** This is a vocational course that introduces students to mechanical systems used in power and transportation. Students will learn basic maintenance, troubleshooting, and how to do an overhaul of a four-stroke engine. During this course students will experience hands on learning activities that will aid them in careers in all automotive fields as well as become better consumers

**Background for Success:** Any experience using hand, or power tools and equipment would be helpful. Students should have an interest in small engines, such as lawn-mowers, motorcycles, outboards, etc.

## **Woodworking Technology I**

Grade(s) Offered: 9-12

Prerequisite: Explorations:

**CREDITS/LENGTH: 1 / year**

**Course Description:** This course is designed for the student who has an interest in acquiring more advanced skills in woodworking. Students will operate most stationary power tools in the shop during this course. First semester, all students will learn how to measure, read a working drawing, and follow a plan of procedure to build a nightstand cabinet. Second semester they will be required to create several smaller projects as assigned by the instructor. Lathe work and CNC router will also be included. Students will be responsible for the cost of the cabinet and any other projects they take home. Career Connections: Upon completion of curriculum, students could obtain a total of 500 hours towards their apprenticeship in carpentry/building trades. 500 hours is equivalent to one step on a pay scale.

**Background for Success:** Students should have an interest in gaining an appreciation of wood and wood products used in daily life. Students will need to know how to work independently and cooperatively in a lab setting. Any experience using hand or power tools would be helpful.

## **Intro to Engineering Design**

Grade(s) Offered: 9-12

**CREDITS/LENGTH: 1 /year**

Prerequisite: None

**Course Description:** The Project Lead the Way curriculum, including Introduction to Engineering Design, focuses on making math and science relevant for students. The approach used is called APPB-Learning (Activities, Projects, and Problem-Based Learning). By engaging in hands-on, real-world projects, students understand how the material covered in class can be applied in their everyday lives. Learning activities will include teacher-led instruction, cooperative learning, and project-based learning. Technology will be used to enhance students' learning, and provide real-world applications.

**Background for Success:** Students that have had previous Project Lead the Way courses will help, but there are no prerequisites

## **Welding and Fabrication**

Grade(s) Offered: 9-12

**CREDITS/LENGTH: 0.5 / semester**

Prerequisites: Explorations is recommended but not required

**Course Description:** In this class students will demonstrate safe procedures while in a "shop" environment, demonstrate proper welding and cutting safety procedures, weld the five most common weld joints, demonstrate knowledge of Shielded Metal Arc Welding, set up and use a Plasma CAM machine, demonstrate knowledge of Oxyacetylene operation, and design and construct basic metal projects using skills learned in class including metal sculpture. Students will also study the history of metalwork.

**Background for Success:** Any experience using hand or power tools and equipment would be helpful. Computer skills are helpful in researching and in utilizing the computer driven machines in the lab such as PlasmaCam and CNC driven Milling Machine

## **Basic Building Construction I**

Grade(s) Offered: 9-12

**CREDITS/LENGTH: 1 / year**

Prerequisite: Explorations

Technical Ed. is recommended but not required

**Course Description:** In Basic Building Construction I, students will learn proper hand and power tool applications, to read a working drawing, to explore various construction materials, basic framing techniques, about sheeting materials, about insulation and venting, various applications and installations of doors and windows, techniques of roofing, sheet rocking techniques, basic siding installation, and basic electrical wiring techniques.

Career Connections: Upon completion of curriculum, students could obtain a total of 500 hours towards their apprenticeship in carpentry/building trades. 500 hours is equivalent to one step on a pay scale.

**Background for Success:** Any experience using hand or power tools and equipment would benefit the student

## **Intro to Automobiles**

Grade(s) Offered: 9-12

**CREDITS/LENGTH: 0.5 / semester**

### **Course Description:**

This course is intended for students to learn the basics of car care, including maintenance, emergency procedures, and purchasing a car. Students will learn about specific applications to their vehicle as well as general applications to all cars. Students will learn through hands on applications on real cars.

**Background for Success:** Any experience using hand, or power tools and equipment would be helpful. Students should have an interest in doing maintenance, repairs, and modifications to a vehicle.

## COMPUTER SCIENCE

### Exploring Computer Science

Grade(s) Offered: 9-12

**CREDITS/LENGTH: 0.5 / semester**

**Course Description:** This course is a project-based course where students use computer science as a vehicle for expressing their own creativity, collaboratively working with others, and being a active participant in problem solving. In the course, students will have experiences involving, computer programming, physical computing, problem solving and data. Students will work to build apps, games, animations and physical computing devices. The goal of Exploring Computer Science is to develop in students the computational practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students. The experiences and learning in this course should also prepare students to take AP Computer Science Principles.

### Cybersecurity

Grade(s) Offered: 9-12

**CREDITS/LENGTH: 0.5 / semester**

#### **Course Description:**

Cybersecurity examines the basics of cybersecurity and ethical behavior in computing. Cybersecurity is a growing and in-demand field. This course provides an introduction of why cybersecurity is important, current threats to cybersecurity and careers available in information security. Students will participate in computational thinking and problem solving as they learn about networks, the internet, data privacy, encryption, and ethics.

## BUSINESS

### Introduction to Business and Marketing

Grade(s) Offered: 9-12

**CREDITS/LENGTH: 0.5 / semester**

Prerequisite: None

**Course Description:** This course will provide students with an understanding of the economic environment in which we all live. Students will learn about how business meets consumer needs and wants, social responsibility, desirable business practices, entrepreneurship, and gain awareness of career opportunities in the field of business. Junior and senior students who successfully complete this course and meet the performance criteria are eligible for the articulation scholarship.

## MEDIA ARTS

### Digital Media Creation

Grade(s) Offered: 9-12

**CREDITS/LENGTH: 0.5 / semester**

**Course Description:** Digital content is an integral part of our world, whether you are receiving, sharing, producing or broadcasting information. This course will focus on the use of technology for the creation of digital media with hands-on projects and real-world activities. Students will use their creativity to collaborate, design, and create original works using a variety of software. Students will learn about web design, social media design principles, audio and video editing, coding and animation, and digital content creation and how it relates to media literacy. This course is a general introduction to the larger field of digital media content creation.

## WORLD LANGUAGE

### French I

Grade(s) Offered: 9-12

**CREDITS/LENGTH: 1 / year**

Prerequisites: None

**Course Description:** Students in this course will practice listening, reading, speaking, and writing in French with an emphasis on communication in real-life situations. They will study a variety of topics with a focus on high-frequency vocabulary.

### Spanish I

Grade(s) Offered: 9-12

**CREDITS/LENGTH: 1 / year**

Prerequisites: None

**Course Description:** Students in this course will practice listening, reading, speaking, and writing in Spanish with an emphasis on communication in real-life situations.

**\*\* If you are interested in Heritage Spanish Class, watch the video on Schoology\*\***

## MUSIC

### Concert Band

Grade(s) Offered: 9-12

**Credits/Length: 1 / year**

### Mixed Choir (9-12)

Grade(s) Offered: 9-12

**Credits/Length: 1 / year**

### Prep Orchestra 9

Grade(s) Offered: 9th

**Credits/Length: 1 / year**