

Frederic High School



Course Description Guide 2025-26

TABLE OF CONTENTS

Introduction	2
Graduation Requirements.....	3
Agriculture	4
Art	6
Business Education	8
English.....	11
Family and Consumer Education	16
Mathematics.....	18
Music	20
Physical Education.....	22
Science.....	24
Social Studies	27
Technology Education	31

Introduction

This course description guide has been prepared for you and your parents/guardians to help select courses to prepare you for your future whether you decide to enter the military, work force, a two-year vocational/technical college, or a four-year college. Frederic High School operates on a trimester schedule. The school year is divided into three trimesters. A trimester class is worth 0.5 credits. Course work at Frederic High School is based on a 6 period day. The last half hour of the day is Viking Time. Students may change their schedule within the first 3 days of a trimester. Any course dropped after the third day will be recorded as a failed class (F) on a student's transcript.

The following classes are weighted on a 5.0 scale:

Accounting I

Accounting II

AP Biology

Advanced Placement Courses approved by the College Board

Early College Credit Program (ECCP) Courses

Start College Now (SCN) Courses

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
Weighted	5.0	4.6	4.3	4.0	3.6	3.3	3.0	2.6	2.3	2.0	1.6	0
Non-Weighted	4.0	3.6	3.3	3.0	2.6	2.3	2.0	1.6	1.3	1.0	.66	0

Frederic High School Graduation Requirements

28.5 Total Credits in the following areas:

- 4.0 Credits of English Language Arts
- 3.0 Credits of Social Studies
- 3.0 Credits of Mathematics
- 3.0 Credits of Science
- 1.5 Credits of Physical Education
- 0.5 Credit of Health Education
- 0.5 Information Processing
- 0.5 Financial Literacy
- 0.5 Business Education
- 0.5 Family & Consumer Education
- 0.5 Technology Education
- 0.5 Senior Seminar
- 10.5 Additional Credits

AGRICULTURE

Agriculture Leadership

Grades: 9-12

Credit: 0.5

This course is designed to encourage the development of leadership skills that are necessary to be successful in the vast agricultural industry. Personal and interpersonal leadership traits will be studied. The course emphasizes FFA and the career development activities related to leadership that are generated by being a part of the organization.

Forestry

Grades: 9-12

Credit: 0.5

Forests and other natural resources play an important role in our world, from providing lumber and paper products to providing habitat for birds and animals. In the Introduction to Forestry and Natural Resources course, you'll learn more about forest ecology, management, and conservation. You'll explore topics such as environmental policy, land use, water resources, and wildlife management. Finally, you'll learn more about forestry related careers and important issues facing forestry professionals today.

Landscaping, Horticulture, & You

Grades: 9-12

Credit: 0.5

Landscaping and horticulture are a growing field, especially in Wisconsin. Within this course, students will get hands-on experience with the floral industry, along with landscaping around the school to increase eye appeal.

Vet Science

Grades: 9-12

Credit: 0.5

If you have animals at home, it is important to know how to care for them, especially when they are sick. Within vet science, students will explore the many reasons for why animals need a veterinarian.

Wildlife Management

Grades: 9-12

Credit: 0.5

This unit deals with natural resources and their management. Topics include careers, historical background, forestry, multiple uses of natural resources, wildlife management, water resources, air resources, and other major concerns affecting our environment. Students will have laboratory experiences at the Luck School Forest and other field trips that pertain to natural resources and conservation. Students will also experience ice fishing, taxidermy, and learn how to preserve fish by smoking, pickling, and other methods.

Art

Ceramics

Grade: 9-12

Credit: 0.5

Even Years

This course utilizes standards based grading, and is designed to teach students the basics of working with clay, using both handbuilding and wheel techniques. Students will be expected to keep a sketchbook, participate in class discussions, critiques, and student art shows.

Design

Grade: 9-12

Credit: 0.5

Even Years

In this course, students will begin learning/perfecting the use of the elements and principles of art and design within various creative fields--such as product and fashion design, environmental design, and communication design.

Drawing

Grade: 9-12

Credit: 0.5

Odd Years

This hands-on class is designed to introduce students to the fundamentals of drawing while nurturing creativity and self-expression. Throughout the year, students will explore various drawing techniques, materials, and styles, developing their observational skills and artistic voice. Through a combination of structured lessons and open-ended projects, students will build a strong foundation in drawing that can be applied to various artistic pursuits and creative problem-solving in other areas of life.

Painting

Grade: 9-12

Credit: 0.5

Odd Years

This course will introduce students to the transparent media of watercolor painting and opaque acrylic painting. Major emphasis is on experiencing a variety of techniques and creating compositions through observation. Students will be provided with a foundation in visual arts concepts with an emphasis on: cultivation of creativity and the art-making process, self discovery: developing the student's individual and unique artistic voice and the elements of art and principles of design.

Photography

Grade: 9-12

Credit: 0.5

Students will learn the basics of composition, digital editing, and website portfolio design. Digital SLR cameras will be used to take the majority of the photos required for this course, and are provided (to loan) by the school.

Sculpture

Grade: 9-12

Credit: 0.5

Odd Years

In this course, students will study form, volume, and spatial relationships through the exploration of decorative, utilitarian, and conceptual approaches to sculpture. They will explore three-dimensional forms using traditional and non-traditional materials. Carefully studying an object—the materials of which it is made, how it is crafted, and the context within which it exists affect our understanding and experience.

Business Education

Adobe

Grade:10-12

Credit: 0.5

Even Years

In this class, students will learn to use Adobe tools with images and data to create high-impact layouts to make large amounts of information consumable and attractive. In addition to customizing photos, students will learn how to make information graphics and other business materials through hands-on projects.

Accounting I & II

Grade:10-12

Credit: 0.5

Financial Accounting 110101101 (4 credits) through Northwood Technical College; often accepted as Accounting 101 in the UW System. *If only the first two trimesters are completed, students will earn 2.0 credits from Northwood Technical College for Financial Accounting 1A 10101176 This course lasts three trimesters. The first and second trimester is an introductory accounting course for non-business program students. The scope of the study focuses on an introduction to business and accounting, analyzing and recording accounting transactions, performing the adjusting process, financial statements, and completing the accounting cycle. Understanding is based both on theory and application. * The third trimester includes merchandising business records, internal cash controls, receivables, current liabilities, and payroll. All business majors are required to take Accounting 101, so the completion of all three trimesters will be an advantage to any student attending college for business.

Business Basics

Grade:9-12

Credit: 0.5

Even Years

Are you considering going into business someday or just interested in learning more about the field? This course helps to gain insight into the business's responsibilities and challenges. Emphasis is on the interaction of the various functions required to operate businesses of all sizes. Specifically, business trends, ownership models, leadership, human resources, marketing, management, and finance will be explored.

Financial Literacy (Required Course)

Grade:12

Credit: 0.5

Financial Literacy teaches money management skills. Units include behavior economics and mindset concepts, career planning, money management tools such as a budget, saving strategies and investment basics such as 401k's. Students will learn the risks of financial responsibility and how to stay ahead of those risks. This course will teach students how to become a critical consumer and a financially responsible community member.

Information Processing (Required Course)

Grade:9

Credit: 0.5

This class will develop solid computer foundations: Windows competency, including solid file management skills, and improved keyboarding skills. Students will learn document formatting skills such as business letters, reports, agendas, and other common text. Google email tools, basic spreadsheet and database skills are also covered in this class.

Investments

Grade:10-12

Credit: 0.5

Odd Years

In this class, students will learn to use Adobe tools with images and data to create high-impact layouts to make large amounts of information consumable and attractive. In addition to customizing photos, students will learn how to make information graphics and other business materials through hands-on projects.

Marketing

Grade:9-12

Credit: 0.5

This course focuses on the marketing process as it relates to the operation of a business enterprise. The intent is to provide students with an understanding of how the marketing function fits within the overall structure of the organization. Special attention is given to the role and significance of evaluating customer needs, pricing, distribution, and promotion of products and services.

Microsoft Excel

Grade:9-12

Credit: 0.5

1 Credit through Northwood Technical College Course # 10103151

This develops foundational skills in the use of Microsoft Office Excel features to efficiently and effectively produce business spreadsheets. Students will apply Microsoft Excel skills to solve practical problems in a project-based format. Activities will work on creating a spreadsheet,

incorporating appropriate formulas and functions to report accurate data, and chart results. Recommended computer foundations: Windows competency, including solid file management skills; basic math fundamentals. This course will use Microsoft Office 2019 or Office 365. Students will complete the MOS Certification process.

MS PowerPoint

Grade:9-12

Credit: 0.5

1 Credit through Northwood Technical College # 10103106

A complete presentation graphics course that allows you to produce professional-looking presentations. It enables you to make informal presentations using overhead transparencies, electronic presentations, formal presentations using 35mm slides, or virtual presentations. Additionally, you can create paper printouts, outlines, speaker notes, and audience handouts. Recommended computer foundations: Windows competency, solid file management skills. This course will use Microsoft Office 2019 or Office 365. Students will complete the MOS Certification process.

Microsoft Word

Grade:9-12

Credit: 0.5

1 Credit through Northwood Technical College Course # 10103146

This develops foundational skills in the use of Microsoft Office Word features to efficiently and effectively produce business documents. Students will apply Microsoft Word skills to solve practical problems in a project-based format. Explore best practices in document layout, collaboration, tables, reports, desktop publishing basics, themes, sort, styles, and references. Recommended computer foundations: Windows competency, including solid file management skills; ability to key 30 WPM. This course will use Microsoft Office 2019 or Office 365. Students will complete the MOS Certification process.

English

English 9

Grade: 9

Credit: 1.0

Freshmen English is a study of all forms of literature: poetry, drama, essays, novel, biography, and articles. Emphasis is on the interpretation of the author's purpose and meaning. There are units in spelling, vocabulary, punctuation, capitalization, sentence structure, paragraph writing, and parts of speech. In a short speech unit, students are introduced to methods of organizing, researching, and developing speeches. Each student delivers a minimum of two speeches, including an introduction speech and a four-minute speech. Each student is required to read at least two books per trimester, one of the student's choices from Additional Reading and one that is assigned.

English 10

Grade: 10

Credit: 1.0

This course is a study of the form, content, and interpretation of all forms of literature: short story, novel, essay, drama, poetry, and biography. In a newspaper unit students study the stories and responsibilities of the news media and of the citizens of a free nation. Students learn to read, interpret, and write news stories, editorials, political cartoons, and feature stories. There are units in spelling, vocabulary, punctuation, capitalization, paragraph writing, letter writing, sentence structure, writing and combining sentences, and essay writing. In a short speech unit students learn to organize, research, and deliver a speech. Each student delivers at least two speeches, including an introduction speech and a 4-minute speech. All students will write a research paper. Each student is required to read a minimum of 2 books per trimester, one of the student's choices from Additional Reading and one that is assigned.

English 11

Grade: 11

Credit: 1.0

This course is a study of the form, content and interpretation of all forms of literature; short story, novel, essay, drama, poetry, and biography. Students will learn to read, interpret and write stories, editorials and political cartoons and feature the stories. There will be units and spelling vocabulary punctuation, capitalization, paragraph writing letter, writing sentence, structure, writing, and combining sentences and essay writing, in a short speech unit, students will learn to organize research and deliver speech. Students will write at least three essays and read two novels throughout this course.

English 12

Grade: 12

Credit: 1.0

This course will build on English 11. This course is a study of the form, content and interpretation of all forms of literature; short story, novel, essay, drama, poetry, and biography. Students will learn to read, interpret and write new stories, editorials and political cartoons and feature the stories. There will be units and review of spelling, grammar, structure, writing, and combining sentences and essay writing. In this course students will focus more on the why or the goal of each piece. We will read through Hamlet and discuss the theories behind tragedy in literature and theater. Students will write at least three essays and read multiple novels throughout this course.

Communications

Grade: 9-12

Credit: 0.5

This course will focus on key aspects of effective verbal and written communication. Students will discuss how to best determine the best way to communicate with others in a variety of scenarios. We will learn about the value of listening skills, and learn about navigating common biases in communications. We will evaluate speakers, prepare and present speeches. Students will gain confidence in their own voice and perspective along with the knowledge of how to communicate it effectively.

Creative Writing I & II

Grade: 9-12

Credit: 0.5

Students in this course will focus on creativity, and deeper understanding of fictional writing. We will spend time on learning the elements of a good story, building strong characters, and challenging our thoughts and ideas. We will write together and individually using a variety of prompt ideas for poems, children's books and short stories. We conclude with independent projects where students will be able to display their individual strengths. These courses do not build on each other, rather they offer a different variety of writing and units of focus.

Genres of Literature I

Grade: 9-12

Credit: 0.5

Odd Years

In this course, students will explore a variety of literary genres, including fiction, nonfiction, fantasy, science fiction, poetry, and more. Each week, we will focus on a different genre, reading stories, articles, and other texts that exemplify its unique characteristics. Through class discussions, independent or group readings, and engaging projects, students will analyze the essential elements that define each genre and determine what makes a piece of literature fit within it. Assessments will include creative and analytical projects, genre-based assignments,

and discussions that encourage critical thinking. By the end of the course, students will have a deeper understanding of literary genres and their impact on storytelling and meaning.

Genres of Literature II

Grade: 9-12

Credit: 0.5

Even Years

In this course, we will explore dystopian and post-apocalyptic stories—two genres that share similarities but also have key differences. Both focus on dark futures and broken societies, but we will look at how they are different in their themes, settings, and characters. Through articles, short stories, and independent reading, we will examine how these stories connect to real-world fears and issues. We will read and discuss texts together and on our own, comparing how dystopian stories challenge unfair systems while post-apocalyptic stories focus on survival after disaster. By the end of the course, students will understand these genres better and see how they are alike yet unique in their storytelling.

Grammar & Usage

Grade: 9-12

Credit: 0.5

This course is designed to strengthen students' foundational English skills, including grammar, punctuation, spelling, reading comprehension, and writing. Through engaging lessons, students will refine their understanding of sentence structure, word usage, and mechanics to improve their communication skills. Students will also read articles to practice understanding what they read. This course will help students become better at writing, reading, and communicating clearly.

Independent Literature

Grade: 9-12

Credit: 0.5

Even Years

This course focuses on reading different fiction and non-fiction literary texts. Students will create their own reading itinerary to complete after finishing each reading section during the trimester. Students complete a variety of writing and speaking assignments to display their understanding and learning. Students will also study the Wisconsin state reading standards and discuss how their reading selections meet those standards. All of this will be completed with an emphasis on time management skills and tips through our weekly meetings and check-ins.

Journalism

Grade: 9-12

Credit: 0.5

Even Years

We will explore what makes good journalism. Studying credibility, reliability and the different fallacies and rhetoric that can be used to sway an audience. We will enhance our peer and self editing skills, along with finding a student's own voice in print.

Literature & Film I & II

Grade: 9-12

Credit: 0.5

Our Literature and Film courses will be broken down into four units. Each unit will contain readings, film, and a project to tie them all together. Through the trimester students will compare and contrast the characteristics, character archetypes, and literary conflict within the text and film. Students will participate in discussions as to the propaganda, and other relatable topics such as profiling, bias, judgements, manipulation and hierarchy. We vary from reading classic and contemporary novels where we try to imagine a life very different from our own while exploring familial and social themes throughout history and today. We watch the video interpretations of these novels, sometimes comparing the videos to each other and how the elements of film can enhance or detract from a message.

Memoir Masterclass

Grade: 9-12

Credit: 0.5

This course provides a study of memoir as literary form, focusing on highly regarded, twentieth-century examples. Selected memoirs offer variety in literary structure and diversity in setting. What makes it not fiction, what makes it not autobiography gets at the heart of what memoir, in the end, has the potential to be. It will be a balance of instruction, discussion and self paced work time. We end this course with writing our own mini memoir to show how each of us has a story worth being told. This course will be ideal for those looking for more rigor without moving to online AP classes.

Mythology

Grade: 9-12

Credit: 0.5

Odd Years

This course will build on English 11. This course is a study of the form, content and interpretation of all forms of literature; short story, novel, essay, drama, poetry, and biography. Students will learn to read, interpret and write new stories, editorials and political cartoons and feature the stories. There will be units and review of spelling, grammar, structure, writing, and combining sentences and essay writing. In this course students will focus more on the why or the goal of each piece. We will read through Hamlet and discuss the theories behind tragedy in literature and theater. Students will write at least three essays and read multiple novels throughout this course.

Scholarship Writing

Grade: 12

Credit: 0.5

This course will focus on dissecting and writing scholarship essays. We will review paragraph and essay formats along with the importance of proper grammar and punctuation. Students will learn how word choice and editing can impact their message. We will work on and complete the Frederic Area Scholarship Foundation Application in class.

Yearbook I, II, III, IV

Grade: 9-12

Credit: 0.5

Yearbook is offered 2nd trimester annually and is a class that will include some work 1st trimester, and will include lessons in creating digital memories, spelling, punctuation, grammar, and lessons from Jostens and Canva. We will practice working as a team, also to meet deadlines. In this class we will create the yearbook for that school year. Each year you are in yearbook, you will gather more responsibility and help to mentor the newer students.

Family Consumer Science

Child Development

Grade: 9-12

Credit: 0.5

Odd Years

In this course, students will gain the knowledge and skills to enhance parent-child/caregiver-child relationships/communication, identify risks and responsibilities associated with teen pregnancy, learn several facts (and risks) about human development, and develop the knowledge and skills to solve problems based upon the developmental needs of children, by making decisions that support the sound physical, mental, emotional, and intellectual (PIES) development of children. The content will be presented in a variety of ways including, but not limited to videos/photos, guest speakers, observations, independent work, hands-on experience, and presentations.

Baking

Grade: 9-12

Credit: 0.5

Even Years

In this course, students will learn the fundamentals and science behind baking. Topics will include: kitchen safety and sanitation, baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the use of proper flours. The content will be presented in a variety of ways including, but not limited to guest speakers, observations, hands-on/lab experience, and presentations

Foods

Grade: 9-12

Credit: 0.5

Odd Years

In this course, students will learn all about the different skills it takes to purchase, prepare, cook, and serve presentable (and more importantly, edible) food. Students will learn all about kitchen safety, healthy eating habits, different flavorings, knife skills, cooking methods. The content will be presented in a variety of ways including, but not limited to guest speakers, observations, hands-on/lab experience, group projects, and presentations.

World Cuisine

Grade: 9-12

Credit: 0.5

Even Years

Prerequisite: Foods

This class will provide comprehensive coverage of cuisines found throughout the world—not only through recipes and techniques, but also through coverage of the history, culture, geography,

religion, and locally grown ingredients that influence these various cuisines. Students will create and sample a multi-cultural feast from around the world. The goal is to guide students through this experience and encourage them to explore, so that they are better able to understand and appreciate various world cuisines, as well as the cultures that they originate from. The content will be presented in a variety of ways including, but not limited to guest speakers, observations, hands-on/lab experience, presentations, and even a field trip.

Mathematics

Math Essentials

Grade: 9-11

Credit: 0.5

This course provides an opportunity to solidify basic mathematical foundations. The courses cover a variety of Algebra and Geometry topics such as real numbers, integers, rational and irrational numbers, linear equations, linear functions, and geometry structures.

Pre-Algebra

Grade: 9

Credit: 0.5

Algebra 1

Grade: 9

Credit: 1.0

Algebra 1 is a research based program providing a rigorous curriculum to set the foundation for all high school mathematics. This course includes topics covering solving, writing, graphing linear equations, and polynomial equations.

Geometry

Grade: 10

Credit: 1.0

Geometry is a structured mathematics course covering the following topics: logic, development of mathematical systems, congruence, direct and indirect proofs, similarity and proportions, construction and loci. A mathematical system is developed around a basic set of definitions, postulates, and theorems concerning points, lines, planes, triangles, quadrilaterals, parallel and perpendicular lines and planes, and three dimensional figures.

Statistics

Grade: 11

Credit: 1.0

Prerequisite: Algebra 1 & Geometry

This is a basic level statistics course and includes topics to explore and understand data, explore relationships between variables, gathering data, and randomness and probability.

Algebra 2

Grade: 11-12

Credit: 1.0

Prerequisite: Algebra 1

Algebra 2 is intended as a follow-up to Algebra 1. This course focuses on the study of more advanced algebra concepts such as matrices, quadratic functions, radicals, logarithms, and introductory trigonometric functions.

Pre-Calculus

Grade: 11-12

Credit: 1.0

Prerequisite: Algebra 2

Pre-calculus is for college-bound students. Topics include information, vectors; quadratic, logarithmic, exponential functions; complex numbers; circular functions; and more.

Music

American Music History

Grade: 9-12

Credit: 0.5

What makes American music, American? Where did it start and how has it changed? Find out in this class which will cover the many changes in music from the United States from its early days in the late 1800s through 2010. Bring your listening ears! You may just discover a new favorite genre.

Concert Band

Grade: 9-12

Credit: 0.5

Concert Band is one of the most important ways a student will develop advanced ensemble skills and learn to hear and improve tone, balance, style, rhythm, articulations, and dynamic contrasts. It is expected that participants are enrolled for the entire school year. The concert band performs at several concerts each year including Veteran's Day, the Winter Concert, Large Group Festival, the Fine Arts concert and Commencement. **Attendance at all performances is required.**

- Pep Band - Pep Band consists of all high school band members and is open to students in Grades 7-8. This group plays for home athletic events.
- Marching Band - Marching band consists of all high school band members and also includes a color guard. All high school band members are expected to participate in the Homecoming Show, Memorial Day, and Family Days Parade.

Concert Choir

Grade: 9-12

Credit: 0.5

Concert Choir (Soprano, Alto, Tenor, and Bass) meets on a regular daily basis to work on appropriate music for the current season such as fall concert, holiday concerts, fine arts concert, and graduation. In the Spring, the choir (director's option) will prepare music for the large-group State Festival or for a festival clinic. The group will work with a variety of musical styles: sacred, secular, pop, rock, country, and classical. Most performances are in the evening or on the weekends. **Attendance at all performances is required.**

Music Theater

Grade: 9-12

Credit: 0.5

Musical Theater class is an exploration of American Musical Theater. Students will study the work of the actor/singer/dancer and use their gained knowledge to develop as performers. Course will include an exploration of all three aspects of musical theatre, as well as a viewing study of different styles of musicals from classic to modern. Finally, the class will participate in a culminating showcase performance at the end of the course which will include everything from being actor/dancer/singers to creating the set and organizing costuming.

Physical Education

Fitness 1

Grade: 9-12

Credit: 0.5

This introductory high school fitness course is designed to empower students with essential knowledge and skills for lifelong health and wellness. Through a combination of classroom learning and practical application, students will develop a comprehensive understanding of exercise fundamentals, nutrition principles, and human anatomy as it relates to physical activity.

Fitness 2

Grade: 9-12

Credit: 0.5

Prerequisite: Fitness 1

Students in this course will experience intense muscle pumping and heart pounding exercise. Students who are concerned about their physique, athletic performance and life- long health will find this class enlightening as they learn how to build on the information they learned in Fitness 1. Most of the time will be spent creating and implementing workout plans in the fitness center.

Fitness Fundamentals

Grade: 9-12

Credit: 0.5

This course provides the opportunity to learn a wide variety of physical activities and sport related movements as well as learning different fitness concepts. During this class students will learn about both team and individual activities. Units covered may include: basketball, volleyball, soccer, football, racquet sports, weight training, kickball, softball, floor hockey along with many more. This class has a high emphasis placed on active participation and positive interaction during all activities.

Health (Required)

Grade: 9

Credit: 0.5

Students will learn how to lead mentally, socially, and physically healthy lives by learning about what causes health problems and learning how to correct those problems. Topics include mental health, emotional health, family health, social health, and physical health (including first aid training).

HS Physical Education

Grade: 9-12

Credit: 0.5

This dynamic high school physical education course is designed to equip students with the knowledge, skills, and motivation necessary to maintain a lifelong commitment to health and wellness. By integrating comprehensive physical activity with educational components, students will explore various game concepts while developing a deeper understanding of how physical activity contributes to overall well-being.

Individual Sports

Grade: 9-12

Credit: 0.5

This course will focus on being physically active in the following “individual” activities: golf, bowling, badminton, pickle-ball, Frisbee golf, horse shoes, ping pong, etc. Each individual unit will last roughly 10-15 days.

Lifetime Activities

Grade: 9-12

Credit: 0.5

This is a general physical education course with an emphasis geared toward outdoor and indoor activities. Students will participate in 10-15 day units in the following core activities: golf, softball, soccer, flag football, bowling, volleyball, badminton etc.

Outdoor Activities

Grade: 9-12

Credit: 0.5

This course will focus on learning information on fishing, fire building, water purification, wood duck houses, archery, survival skills, geocaching/orientering . The students will also build a custom fishing pole to be used during the class.

Team Sports

Grade: 9-12

Credit: 0.5

This course will focus on the following activities; basketball, volleyball, floor hockey, soccer, softball, team handball and lacrosse.

Science

Biology

Grade: 9

Credit: 1.0

This course is an introduction to the concepts, principles, and theories that allow people to understand the natural environment as well as the study of life. Topics include ecology, basic chemistry, cells, genetics, and adaptation.

Science Essentials

Grade: 10

Credit: 1.0

This course is a variation of the traditional physical science that students would receive freshman year, including physics, engineering, and energy. This twist is that we also work in Earth and Space science to cover some standards in those areas as well. The curriculum is set up very similarly to biology and chemistry, so students will be prepared for the science ahead of them.

Chemistry

Grade: 11

Credit: 1.0

Prerequisite: Biology & Science Essentials

This class is an introduction to the physical science that studies properties of elements, compounds, mixtures, and solutions. Students will use theory, mathematical concepts, and laboratories to understand this field of science. Topics include the “language” of chemistry, the periodic table, chemical reactions, solids, liquids, and gasses.

AP Biology

Grade: 10-12

Credit: 1.0

Odd Years based on numbers otherwise online

Study the core scientific principles, theories, and processes that govern living organisms and biological systems. You’ll do hands-on laboratory work to investigate natural phenomena.

Botany

Grade: 9-12

Credit: 0.5

Botany is the scientific study of plants and their relationship to the environment. In this course, students investigate the growth, reproduction, anatomy, morphology, physiology, biochemistry, taxonomy, genetics, and ecology of plants.

Environmental Science

Grade: 10-12

Credit: 0.5

Even Years

This course provides students with an interdisciplinary introduction to the natural world, exploring how human activities impact Earth's systems and resources, and examining potential solutions for environmental challenges and promoting sustainability

Genetics

Grade: 10-12

Credit: 0.5

Prerequisite: Biology

This course teaches how we gain the physical traits that we have through heredity, as well as how certain diseases and disorders can be inherited. Students will gain knowledge on how DNA is copied, read, expressed, and passed from one generation to the next

Human Anatomy

Grade: 10-12

Credit: 1.0

Prerequisite: Biology

Odd Years

This is designed as a college prep course and will include a yearlong study of intense human anatomy and physiology studies. Students will extensively examine systems of the human body beginning with cells and moving outward to gross, visible structures. We will study human cells, tissues, and identify structures within systems such as the skeletal, muscular, and nervous. This class places high emphasis on using complex Latin root words to help with naming body structures through medical terminologies. This course is highly recommended for students interested in the health and medical profession.

Medical Terminology

Grade: 9-11

Credit: 1.0

**Online

This course focuses on the components of medical terms: prefixes, suffixes, and root words. Students practice formation, analysis and reconstruction of terms. Emphasis on spelling, definitions and pronunciation. Introduction to operative and diagnostic, therapeutic and systemic and surgical terminology.

Zoology

Grade: 9-12

Credit: 0.5

Zoology is defined as the study of animals, so that is exactly what this course will be. We will start with the simplest organisms and work up towards more complex animals like us! Ever wonder what defines a fish as a fish or if a turtle is an amphibian or a reptile? These are the questions we will answer in this course!

Social Studies

U.S. History

Grade: 9

Credit: 1.0

This course is a survey of events that have transpired from 1865 to the present. This course will survey events from Reconstruction (1865) to present day, including political, economic, social and cultural history. The units of study are Colonies to Civil War (Review), Reconstruction, Challenges and Growth in Late 1800s, Progressivism and World Power, World War I and 1920s-30s, World War II, Cold War and Vietnam, Civil Rights Era and Modern America. We will utilize notes, vocabulary, primary sources, secondary sources, group projects, and individual research projects to analyze different perspectives and key concepts that are consistent throughout all of American history.

World History

Grade: 10

Credit: 1.0

This course focuses on world history by covering major historical periods from the origins of civilization up through the world today. We will study geographical regions, specific countries and people who live there through analyzing government, economy, different cultures, and points of interest. An emphasis is placed on international “hot spots” and how these areas affect the United States and our foreign policy. We will also be examining current world events making connections between them and our subject matter.

American Government

Grade: 11

Credit: 1.0

American Government is designed to give the students a better understanding of the framework of government on both the national and local level. Through this course students will gain a deeper understanding of their own political thought, and the thoughts of those in power. We will utilize notes, vocabulary, primary sources, secondary sources, group projects, and individual research projects to analyze different perspectives and key concepts that are consistent throughout American Government.

Senior Seminar (Required)

Grade: 12

Credit: .5

Senior Seminar is designed to prepare students for the transition into adulthood by equipping them with essential life skills, practical knowledge, and a deeper understanding of their roles as responsible members of society. This course will help students navigate the challenges of independence, whether they are heading to college, joining the workforce, or exploring other

post-graduation paths. Students will engage in real-world problem-solving, discussions, and hands-on activities covering financial literacy, career readiness, personal well-being, civic engagement, and everyday responsibilities. Guest speakers, case studies, and interactive projects will ensure that students leave high school feeling confident and prepared for what comes next. This course is about more than just academic success—it's about learning how to thrive in the real world. By the end of the semester, students will have the tools, confidence, and knowledge to take control of their futures and step into adulthood with purpose.

AP Comparative Government and Politics

Grade: 11 & 12

Credit: 1.0

**Online

AP Comparative Government and Politics is an introductory college-level course in comparative government and politics. The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students cultivate their understanding of comparative government and politics through analysis of data and text-based sources as they explore topics like power and authority, legitimacy and stability, democratization, internal and external forces, and methods of political analysis.

AP Psychology

Grade: 10-12

Credit: 1.0

**Online

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles and phenomena associated with each of the major subfields within psychology and the methods psychologists use in their science and practice. Some of these areas include: Personality, Motivation and Emotion, Learning, Thinking, Intelligence, Memory, Psychological Disorders, Therapy, and Social Psychology. Students also learn about the ethics and methods psychologists use in their science and practice.

AP United States History

Grade: 10-12

Credit: 1.0

**Online

This AP US History course is designed to provide students with the analytic skills and factual knowledge necessary to deal with the problems and materials in U.S. history. This class will prepare students for college by making demands upon them equivalent to those made in an introductory college history course. Students will learn to assess historical materials and determine their relevance to a given interpretive problem. They will learn the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence

clearly and persuasively in essay format. This class will begin with Pre-Columbian history and progress quickly through over five hundred years of United States history and culminate with globalization and the concerns of the United States today. This course will be delivered in a blended classroom environment.

AP World History

Grade: 11-12

Credit: 1.0

**Online

This AP World History course is designed to provide students with the analytic skills and factual knowledge necessary to deal with the problems and materials in World history. This class will prepare students for college by making demands upon them equivalent to those made in an introductory college history course. Students will learn to assess historical materials and determine their relevance to a given interpretive problem. They will learn the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. This class will begin with Pre-Columbian history and progress quickly through over five hundred years of United States history and culminate with globalization and the concerns of the United States today.

History Through Film

Grade: 11-12

Credit: 1.0

Even Years

History Through Film is a unique elective that explores historical events and themes through the lens of Hollywood filmmaking. This course is divided into three sections, each consisting of five in-depth units covering topics from ancient civilizations to modern environmental crises. By analyzing films alongside historical evidence, students will evaluate the accuracy of cinematic portrayals, uncover historical biases, and discuss the impact of storytelling on public perception of the past. As an elective, this course allows for a focused study of specific historical events and themes that align with popular films, offering students an engaging and critical perspective on history. To enroll, students must have successfully completed all core social studies courses, as these provide the necessary analytical and historical skills required to investigate and discuss each film's historical context. Through film analysis, primary and secondary source comparisons, and class discussions, students will develop critical thinking skills while gaining a deeper appreciation for the complexities of history and its representation in media.

Political Primaries

Grade: 9-12

Credit: 1.0

Election Years - 2nd Trimester

How does the United States select its presidential candidates? This course explores the complex and dynamic process of presidential primaries and caucuses, where party nominees are determined before the general election. Students will examine the history, structure, and impact of primaries, including key moments that have shaped modern campaigns. Through case studies of past elections, analysis of debates, and discussions on media influence, campaign strategy, and voter behavior, students will gain a deeper understanding of how candidates build momentum, secure delegates, and navigate party politics. The course will also cover the role of Super Tuesday, the impact of early states like Iowa and New Hampshire, and the significance of party conventions. A key component of this class will be tracking the current presidential primary season. Students will research and analyze the candidates, their policy positions, and their campaign strategies. By following real-time election developments, debates, and polling trends, students will gain hands-on experience in evaluating the ever-changing political landscape. By the end of the course, students will be able to critically evaluate the primary system, understand its strengths and weaknesses, and engage in informed discussions about potential reforms. Whether you're interested in political strategy, election history, or just want to make sense of the next presidential race, this course will give you the tools to follow the primaries like a pro!

Sports History

Grade: 9-12

Credit: .5

Odd Years

Welcome to Sports History: The Games That Shaped the World! This course explores the evolution of sports from ancient times to the modern era, analyzing how athletics have influenced and reflected social, political, and cultural changes throughout history. We'll examine key moments in sports history, including the origins of the Olympic Games, the rise of professional leagues, landmark events like Jackie Robinson breaking the color barrier, the global impact of the World Cup, and the role of sports in major historical movements. Through films, primary sources, and class discussions, we'll investigate how sports have been used as a tool for unity, protest, and even propaganda. This class isn't just about famous games and athletes—it's about how sports shape societies, reflect our values, and inspire change. Whether you're an athlete, a fan, or just interested in history, this course will deepen your understanding of the world through the lens of competition and teamwork. Expect engaging discussions, historical documentaries, film analysis, and research projects that connect the past to today's biggest sports stories

Technical Education

Building Construction

Grade:9-12

Credit: 0.5

In this course, students will learn the basics of building materials, components, methods, and sequences in residential construction. Students will learn everything from attaining a jobsite, surveying land, construction calculations, building a foundation, pouring concrete, framing walls, installing windows and doors, roofing houses, and everything in between that they would see on a construction site. This course is designed to give students basic, entry level skills in construction and related trades along with an overview of career opportunities available. Students will build storage sheds or other construction projects to sell to people in the community where they will get hands-on experience in most of these areas. Emphasis is placed on safety and the proper use of both hand and power tools.

Drafting

Grade:10-12

Credit: 0.5

Prerequisite: Intro to CNC

Drafting is the discipline of composing drawings that visually communicate how something functions or is constructed. In this course, students will learn many skills related to drafting. Students will learn how to sketch, draft using hand tools, read blueprints of an object, properly dimension, and create 2D and 3D objects. Students will also spend two thirds of the course learning how to create 2D and 3D objects on the computer using CAD programs such as AutoCad and Inventor. Towards the end of the course, students will have the opportunity to combine everything learned in this course to create something using the 3D Printer. This will allow students to see how an object starts as a sketch, turns into a detailed drawing, gets created on the computer using a CAD program, and can end up as a physical object that they can keep and be proud of.

Home and Auto Maintenance

Grade:9-12

Credit: 0.5

Basic Home and Auto Maintenance is a class where students will learn some very important life skills that can save them some major money as they become adults. On the automotive side of this class, students will learn how to change a flat tire, how to patch a tire, how to change oil, how to check fluid levels in a vehicle, how to rotate tires, and the basics of how an engine works. Students will also learn how to do some simple wall framing, how to wire an outlet and a switch, how to hang drywall, how to mud drywall, how to patch drywall, how to do simple plumbing, and any other skills that time allows for. This class is mostly hands-on and very fun. Students will learn many skills that will help them in the future.

Introduction to CNC

Grade: 9-12

Credit: 0.5

In this course, students will learn many things including; Safety, writing G-Code, designing projects, setting up CNC machines, and ultimately running the CNC Machines safely and independently. Students will learn to run the CNC Wood Router, CNC Plasma Cutter, Laser Engraver, Vinyl Cutter, and 3D Printer. The goal for this class is to allow students to get comfortable with running high end CNC Machines to get them interested in future Tech. Ed. Classes that use these machines. Students will get to make and take home many cool projects and learn some valuable life skills along the way.

Leatherworking

Grade:10-12

Credit: 0.5

Odd Years

Prerequisite: Teacher approval needed

In this course, students will learn many things including; safety, designing leather templates, tooling leather, stitching leather, what type of finish to use, and anything else they will need to know depending on what project they are making. Students will use swivel knives, awls, burnishers, leather stitching needles, etc. Students will learn to make leather belts, leather patch hats, and any other projects they can get done in the time allowed. This is a great class that will introduce students to a life skill that will allow them to make projects that they can have and use forever.

Metals 1

Grade: 9-12

Credit: 0.5

This Course is designed for students who are interested in ALL things Metal. During this course, students will study safety and PPE, different types of welding and welders, reading welding blueprints, metalworking symbols, cutting metal, and sheet metal processes. Students will use SMAW welders, MIG welders, TIG welders, oxy-fuel torches, CNC plasma cutters, and many hand tools and benders. This course focuses on practice and there will be time every period for students to refine skills in welding and metalworking.

Metals 2

Grade:10-12

Credit: 0.5

Prerequisite: Metals 1

Metals 2 will build off what was learned in Metals 1. Students will have a chance to take their metalworking skills to the next level by; welding with different types of electrodes while arc welding, welding in different positions while arc welding and wire feed welding, understanding and choosing which welding process is the best for different applications, creating more challenging weldments and parts, designing and creating their own project using multiple metalworking machines and techniques, getting a chance to do some machining on a vertical mill, and ultimately refine and expand upon their metalworking skills.

Small Engines

Grade:10-12

Credit: 0.5

In this class, students will learn the four strokes an engine goes through, the different parts and systems of an engine, and how to; disassemble, clean, inspect, repair, replace, assemble, and adjust to proper running condition a small internal combustion engine. These engines are the types used on lawnmower, tiller, motorcycle, snowblowers, dirtbikes, 4 wheelers, etc. Students will learn proper shop safety, housekeeping, techniques using hand tools, measuring instruments, service, and operation manuals. Students are required to provide a four-cycle engine (If a student absolutely cannot find an engine to work on, the school will have engines available for students to work on)

Viking Manufacturing

Grade:11-12

Credit: 0.5

Prerequisite: Teacher approval needed

Viking Manufacturing is a student-run business where students will learn how to use CNC Equipment to make products for customers and people around the community. Students will use previously learned skills from a variety of Tech. Ed classes in order to create projects to sell using the CNC Wood Router, CNC Plasma Cutter, and Laser Engraver. Students will have the opportunity to take leadership roles such as being responsible for quoting jobs, ordering material, meeting with customers, manufacturing products, quality control, shipping, receiving, invoicing, customer service, maintaining equipment, marketing, and everything else it takes to run a business. Students will be making custom order products such as wood signs, metal signs, fire rings, cutting boards, and anything else customers can think of. Students will also work on making Frederic Viking related products to sell at sporting events or other community events to promote the school and our program.

Woods 1

Grade: 9-12

Credit: 0.5

\$20 Materials Fee

In this course, students will learn many things including; safety, machines, lumber calculations, hand tools, wood joints, and the study of woods and composites made from wood. Students will use these materials to construct a few required projects along with designing and completing their own individual project. This course enables students to experience the process of translating an idea into a finished product, with instruction in planning, designing, selecting materials, and using tools and machines safely.

Woods 2

Grade:10-12

Credit: 0.5

Prerequisite: Woods 1

\$20 Materials Fee

Woods 2 will build off what was learned in Woods 1 and will include some additional machines, safety, lumber calculations, hand tools, and wood joints. Students will have two required projects which material will be provided for and the remainder of the class will be set up for individual projects which students must provide sketches, steps, and materials for. Students will be building off their Woods 1 experiences and processes to produce more challenging products using some additional machines and techniques.