

Frederic High School
2012-2013
Course Description Guide



FREDERIC HIGH SCHOOL GRADUATION REQUIREMENTS

<u>2013</u>	<u>2014 & After</u>
4.0 Credits of English	4.0 Credits of English
4.0 Credits of Social Studies	4.0 Credits of Social Studies
2.0 Credits of Mathematics	3.0 Credits of Mathematics
2.0 Credits of Natural Science	2.5 Credits of Natural Science
1.5 Credits of Physical Education	1.5 Credits of Physical Education
1.0 Credit of Information Processing	1.0 Credit of Business
0.5 Credit of Adult Living	0.5 Credit of Adult Living
0.5 Credit of Health Education	0.5 Credit of Health Education
9.5 Additional Credits	9 Additional Credits
<hr style="width: 10%; margin-left: 0;"/> 25.0 Credits Total	<hr style="width: 10%; margin-left: 0;"/> 26.0 Credits Total

The Board of Education has approved a community involvement requirement for graduation. Each class will be required to complete forty (40) hours of community service before graduation.

COLLEGE ADMISSION REQUIREMENTS

The following high school classes are the **minimum** you will need to enter a college, some require more. Students are urged to check the college catalogs available in the school counselor's office for specific requirements per college.

- 4 credits of English, including composition and literature
- 3 credits of Math, including algebra, geometry, and higher level math
- 3 credits of Science, including laboratory science such as biology, chemistry, or physics
- 3 credits of Social Studies, including history
- 4 credits of electives from the above areas, foreign language, fine arts, computer science, or other areas
- 2 credits of a single foreign language is strongly advised , and is required by some universities

NCAA ACADEMIC ELIGIBILITY REQUIREMENTS

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|--|---|
| <ul style="list-style-type: none"> • 4 years of English • 3 years of mathematics (Alg 1 or higher) • 2 years of natural/physical science (1 lab) • 1 year of additional English, math, or natural/physical science | <ul style="list-style-type: none"> • 2 years of social science • 4 years of additional courses from any area above, foreign language, or nondoctrinal religion/philosophy |
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*Different requirements may exist for different Divisions.

See http://web1ncaa.org/ECWR2/NCAA_EMS/NCAA.jsp for more details.

2012-13 COURSE OFFERINGS

The following are brief course descriptions that should assist you in understanding what to expect in each of the courses available to Frederic High School students.

UNIQUE OPPORTUNITIES FOR STUDENTS

WEIGHTED GRADE COURSES

Classes that have been determined to be the most rigorous and demanding courses offered here are given a weighted status. Our weighted grade courses are: AP Literature and Composition, AP Calculus, Advanced Biology, History of Human Behavior and any Advanced Placement or post-secondary level course offered over the ITV Network, as deemed appropriate by administration. (AP US History, AP Psychology, and Medical Terminology) Grades received in those courses will be given an extra 1.0 weight (A=5.0, B=4.0,...) to encourage students to choose demanding courses.

INTERACTIVE TV COURSES (Distance Learning)

Courses are offered by Frederic teachers, other high schools, vocational schools, and colleges and are available through the Northern Lights Distance Learning Network. Students must be in good academic standing and must have the ability to self motivate and monitor to be successful. Criteria for interactive TV Courses may include, but are not limited to, the following:

- Teacher recommendation may be required.
- Grades in similar department courses may include or exclude students from classes.
- GPA, entry level grade, testing, and teacher recommendation may be used as a method to decide what students are selected for classes.
- Students in ITV courses requiring tuition fees will be required to reimburse the District if they fail the course or drop the class after scheduling deadlines.
- Students with an outstanding balance on an interactive class bill will not be allowed to take part in graduation ceremonies if bills are not paid by the date of graduation.

Special requests for these courses will be reviewed by administration. For select classes, a student has the option of taking classes for AP or college credit. The list and descriptions of the courses are provided in the following pages. Please understand that there is limited space in these classes and not every student signing up will be guaranteed a spot. Courses offered over the network vary from year to year.

ITV COURSE DESCRIPTIONS

AP US History-YEAR

Grade Level: 11-12

AP US History is an advanced course designed for university bound students who would benefit from an intense, fast-paced, reading and writing intensive course that would better prepare them for a university setting. Students will be required to rigorously analyze both primary and secondary history sources, independently read source material outside of class, write logically and precisely regarding these sources in both short-answer and essay format, have a pre-existing knowledge of historical concepts, and have the ability to reinforce them with factual materials.

This course will be taught, presented, and be as rigorous as a university level course. This course prepares students for intermediate and advanced college courses by making demands of students equivalent to those they will encounter in introductory college courses. Upon completion of the course, students will be given the option for national AP Testing, and potentially earn college credit. However, taking the National AP Test and earning college credit should not be the sole reason for taking this course. NCAA approved at origination site.

Prerequisite: Junior or Senior with a 3.5 GPA in Social Studies or consent of instructor.

WI DPI Course Code: 04104G

Sponsor: Barron High School

Time: 8:15 - 9:05 AM

Elective Credit: 1.0

Sign Language I - YEAR

Grade Level: 10-12

Participants will learn the manual alphabet, signed numbers, sign vocabulary, and develop receptive and expressive skills in American Sign Language (ASL). Students will interact with a variety of people, assistive devices, and an animal from the Deaf Culture. Issues pertinent in the deaf culture will be researched and discussed. Students will perform in ASL at various school functions. Upon completion of this course, students will be able to communicate effectively in basic signed conversations and be familiar with the values of the Deaf Community. NCAA approved at origination site. **One Field trip each semester.

Sponsor: Barron High School

Time: 10:45 - 11:35 AM

Elective Credit: 1.0

AP Psychology-YEAR

Grade Level: 12

This AP Psychology class will follow the guidelines set forth by the College Board Advanced Placement Program. The purpose of this course is to introduce students to the systematic and scientific study of the behavior and mental process of human beings and other animals. Students will be exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They will also learn about the ethics and methods psychologists use in their science and practice. Students will cover these topics and be assessed through exams, in class free writes, out of class written papers, and class discussion and participation, as well as other educational opportunities that may arise throughout the year. At the culmination of the course the AP Psychology Exam will be offered to all students who wish to take it. This exam includes a 70 minute multiple choice exam that accounts for two-thirds of the exam grade, and a 50 minute free response section made up of two questions that accounts for one third of the exam grade.

Sponsor: Luck High School

Time: 1:45 - 2:35 P

Elective Credit: 1.0

SEMESTER 1 CLASSES

World War II-Sem 1

Grade Level: 11-12

First quarter, the war in the Atlantic will be featured. Second quarter, the war in the Pacific will be covered. We will do in depth studies on many major battles and their importance to the war as well as in-depth studies on military leaders and their decisions. The class will be taught through PowerPoint presentations and through movies, some of which will be very graphic. Primary grading will be through tests, quizzes, and maps.

Sponsor: Frederic High School

Time: 9:05 - 9:55

Elective Credit: .5

Prerequisite: Juniors must get instructor approval

Small Animal Care-Sem 1

Grade Level: 12

This is a class designed to inform students on how to choose a pet for their lifestyle. The course will provide information on the different breeds, diseases and how to provide general care for their pet. Students will also learn the history of how the animal became part of the pet family. Students will have the opportunity to participate in a few labs and listen to guest speakers who are trained in a specific pet area. Some animals of study include: dogs, cats, rabbits, rats, mice, ferrets, amphibians, reptiles, birds, fish and other exotic species. Students are encouraged to bring in their pets for demonstrations.

Sponsor: Turtle Lake High School

Time: 9:55 - 10:45 A

Elective Credit: .5

Pre-Engineering-Sem 1

Grade Level: 12

Pre-Engineering - This course is great for students who are interested in careers related to engineering, design, manufacturing, or computeraided-machining. Students will explore science, technology, engineering and math (STEM) while using a computer software called SolidWorks.

Students will be introduced to solid part modeling to create and modify fully parametric 3D models.

Students will learn computer-aided-drafting skills, create sketches, apply various features, place dimensions, add relationships to define sketches, and modify completed models. Students will also create assemblies and animations using parts they have created and much more. This course is articulated so students can earn dual credit through WITC's Mechanical Design Technology or take it a step further and become a CSWA - Certified SolidWorks Associate by taking the exam. If you have any questions please contact Mr. Ward - rward@webster.k12.wi.us.

Sponsor: Webster High School

Time: 12:00 - 12:55 P

Elective Credit: .5

Science Theory-Sem 1**Grade Level: 12**

Science Theory is a historical overview of scientific thought. The course starts with some early Greek concepts of the universe, moves on to Galileo's and Newton's contributions, continues with relativity, quantum theory, and the latest proposed controversial string theory. The course finishes with a unit that relates cosmology with the various concepts covered throughout the course. The difficulty level of the course is geared to challenge, without overwhelming, students. The course avoids the difficult math of these theories and focuses on how the theory was developed and how it has changed our world view. The mathematical relationships that we glean from the theories will be restricted to algebra level math. There will be discussion on the people behind theory, the society in which these people worked, and the impact the theories had on society; however, the primary focus will be the theories themselves and what they tell us about the universe.

Sponsor: Spring Valley High School

Time: 12:55 - 1:45 p

Elective Credit: .5**Holocaust-Sem 1****Grade Level: 11-12**

This class will deal with Jewish History, leading into World War II and their involvement in this war. NCAA approved at origination site.

Sponsor: Birchwood High School

Time: 2:32 - 3:15 P

Elective Credit: .5**SEMESTER 2 CLASSES****Medical Terminology-Sem 2****Grade Level: 12**

Focuses on the component parts of medical terms: prefixes, suffixes and word roots. Students practice formation, analysis and reconstruction of terms. Emphasis on spelling, definition and pronunciation. Introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systematic and surgical terminology.

Sponsor: Cumberland High School

Time: 9:05 - 9:55 A

Elective Credit: .5, 3 WITC Transcribed Credits**Advanced Health-Sem 2****Grade Level: 12**

Advanced health is a High Academic Course for upper class-men. The class will put an emphasis on health careers, fitness, wellness, sports nutrition, and injury prevention. Students will gain knowledge on these various health topics from professionals in their respective health fields. Access to a Computer Lab outside of class is needed. Student will use Prezi, Powerpoint, Movie Maker, and I Muscle.

Sponsor: Northwood High School

Time: 12:00 - 12:55 P

Elective Credit: .5**Prerequisite:** Completion of General Health with "C" or better.

Ag Business-Sem 2**Grades 10-12**

The following units will be covered in this ITV class: careers in ag business, how to start an ag business and getting established in farming, organizing and managing the farm business, basic economic principles, commodity trading, various types of costs and risk aspects of farming, farm records, insurance, safety, farm law, taxes, lending organizations, soil conservation, legal description and land measurement and types of farm business organizations.

Sponsor: Spring Valley High School

Time: 12:55 - 1:45 P

Elective Credit: .5

Mythology-Sem 2**Grade Level: 11-12**

People have always tried to understand why things happen. Today we have scientific answers and theories for many questions about the world around us. But in earlier times, and in some parts of the world today, people lacked the knowledge to provide scientific answers. These people were imaginative enough to come up with stories about gods, goddesses, and heroes. Such stories are known as myths, and the study of myths is called mythology. In this course we will study myths from other countries to develop an appreciation for varying cultures and look at dominant myths of our own culture.

Sponsor: Frederic High School

Time: 9:55-10:45 AM

Elective Credit: .5

Prerequisite: Approval from the English department.

Women's Literature-Sem 2**Grade Level: 11-12**

Some authors deal with mature subjects. This course will focus on various genres of literature written by or about the female gender. Literature will include poetry, short story, essay, speech, film, and novel. Class work will be framed around the readings and will involve extensive classroom discussion. Authors include, but are not limited to: Jane Austen, Maya Angelou, Sylvia Plath, Gertrude Stein, Margaret Atwood, and Kyoko Mori.

Sponsor: Birchwood High School

Time: 2:35 - 3:25 P

Elective Credit: .5

BUSINESS EDUCATION

INFORMATION PROCESSING**Grade Level: 9**

Students will be required to use proper techniques while keying. Also, students will become familiar with Microsoft Office 2010. Students will use the formatting skills to format personal and business letters, memos, reports, and tables. Students will also use Microsoft Office to gain skills in creating tables, flyers, calendars, cards, and presentations.

Required Credit: .5

Prerequisite: None

ACCOUNTING I

Grade Level: 10-12

Accounting is currently the most in-demand college major. This course provides an understanding of the basic principles of the double-entry accounting system. Activities include recording and posting transactions, preparing work sheets and financial statements, preparing payroll and tax data, preparing personal income tax forms, being introduced to data processing, managing a checking account and reconciling a bank statement, and developing the essential business traits of accuracy, neatness, orderliness, thoroughness, and responsibility. Students will also become acquainted with career opportunities in business. Students who plan to major or minor in any business-related degree programs should definitely be taking this course in high school!

Elective Credit: .5

Prerequisite: None

ACCOUNTING II

Grade Level: 10-12

Accounting II is a continuation of Accounting I. Students will journalize and post business transactions using special journals and prepare financial statements as well as learn about uncollectible accounts, assets and depreciation, inventory, notes and interest, accrued revenue, expenses, and dividends for a merchandizing business organized as a corporation. Financial statements will be prepared on the computer using accounting and spreadsheet software.

Elective Credit: .5

Prerequisite: Grade of “B” or better in Accounting I

COMPUTER APPLICATIONS I

Grade Level: 10-12

Through this one-semester course, students should become familiar with a variety of issues related to computers in today’s business society. We will explore our computer hardware components and peripheral devices like the digital camera and scanner. A majority of the class will consist of hands-on learning of a variety of computer software programs. The main programs explored will be HTML, Dream Weaver, Macro Media Flash, Movie Maker (movie editing) Photo Story (photo editing).

Elective Credit: .5

Prerequisite: Information Processing

COMPUTER APPLICATIONS II

Grade Level: 10-12

Students will have the option of making a news cast like FHS news or something related to video recording, editing and publishing. This class is mostly independent as it will be offered during the same time Computer Application I is.

Elective Credit: .5

Prerequisite: Information Processing & Computer Application I with an A or B.

COLLEGE OR CAREERS

Grade Level: 11-12

Careers and Employability Skills is a CTE (Career and Technical Education) foundation course that leads students through a process of self-knowledge and the use of that knowledge for effective career planning. Students will work with the 16 career clusters and explore how these clusters can help guide their career planning. Besides career planning, students will explore the world of work, how it operates and how they can fit into that world.

This course will include the changing workplace, career decision-making and planning; job search and employment acquisition; workplace ethics and attitudes; workplace health, safety, and legal matters; employee and employer rights and responsibilities; diversity; and 12th century skills – communication, computer literacy, teamwork, thinking skills, and problem solving.

Elective Credit: .5

Prerequisite: None

MATH WITH BUSINESS APPLICATIONS

Grade Level: 11-12

This course covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, applying math concepts to the purchasing/buying process, applying math concepts to the selling process, and basic statistics with business/consumer applications.

Elective Credit: .5

Prerequisite: None

PERSONAL FINANCE

Grade Level: 11-12

This course will introduce students to the various areas of personal finance they are encountering now or will encounter in the near future. For example, building credit, taking out a loan, buying a car, checking/savings accounts, budgets, real estate, stocks, bonds, mutual funds, retirement planning, insurance, investing, the dangers of credit cards, etc. Emphasis will be on learning how to make sound, informed financial decisions and how to responsibly handle financial affairs. If you don't take care of your financial future, who will?

Required Credit: .5 (For students who haven't taken one full credit of Info Pro. Students that have taken one full credit of Info Pro can take this class as an elective.)

Prerequisite: None

ENGLISH

ENGLISH 9

Grade Level: 9

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 or demonstration speech. Each student is required to read at least two books per quarter, one of the student's choice from the Accelerated Reading program and one that is assigned.

English Credit: 1.0

Prerequisite: None

ENGLISH 10

Grade Level: 10

Sophomore English 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 duties and responsibilities of the news media and of the citizen 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 four-minute research paper speech. All students will write a research paper. Each student is required to read a minimum of two books per quarter, one of the student's choice from the Accelerated Reading program and one that is assigned.

English Credit: 1.0

Prerequisite: English 9

ENGLISH 11**Grade Level: 11**

This course offers American short stories, novels, poetry, movies, and plays to evaluate, interpret, and discuss. Students are required to read four novels independently, one per quarter. The course, in addition to a wealth of literature, provides an opportunity to build on previous grammar instruction. It also offers many opportunities for creativity from writing to group work to in class acting. In preparation for college or post high school life, the course provides opportunities to research and report on careers and schools; in addition, they will write practical pieces to aid in scholarships or to find a job or to help in future education using the program WISCareers.

English Credit: 1.0**Prerequisite: English 10****ENGLISH 12****Grade Level: 12**

This year is dedicated to preparing for life after high school. First semester of English 12 is writing intensive and offers many opportunities to read non-fiction pieces. The first quarter is devoted to developing scholarly writing skills, whereas second quarter involves some more creative writing and reflection. Second semester of English 12 students will study British myth, poetry, short stories, and plays which they will evaluate, interpret, and discuss. By the year's end, each senior will have completed a Senior Memory Book, a piece of writing for The Senior Anthology, and a Senior T-shirt.

English Credit: 1.0**Prerequisite: English 11****AP Literature and Composition****Grade Level: 12**

This course is designed to broaden and stretch students to better themselves as readers, writers, and thinkers. Advanced English is designed for those students who have earned a B or better in English 11 and wish to attend a four-year university. This course is writing and reading intensive. In addition to rigorous coursework, each student is required to read six classic novels independently. This course is meant to prepare students to take the AP exam if they choose in May or to be prepared for college-level English. Second semester of English 12A involves British myth, poetry, short stories, and plays to evaluate, interpret, and discuss. By the year's end, each senior will have completed a Senior Memory Book, a piece for the senior writing for The Senior Anthology, and a poetry T-shirt. In addition, if they pass the AP exam at the end of the year, they will earn three college credits.

English Credit: 1.0 (Weighted)**Prerequisite: Grade of "B" or above in English 11****YEARBOOK****Grade Level: 10-12**

The primary focus of this course is to produce the high school yearbook, The Magnet. Students must be dedicated and know computer basics. Students will take pictures, sell ads, write and edit pages.

Elective Credit: .5**Prerequisite: Overall GPA of 3.0 or higher or Teacher Approval**

FAMILY AND CONSUMER SCIENCE

FABRIC ARTS

Grade Level: 9-12

During this semester course students will have an opportunity to create projects from cloth. Students' projects may include: athletic bags, clothing, hunting accessories, home furnishings (pillows, quilts, fleece blankets, curtains, furniture covers) and other fabric arts such as tie-dying and digital printing onto fabric. Through creating class projects, students will learn about fabrics, patterns, sewing machine operation, hand stitching and ironing. Students will be asked to pay for some fabric supply costs.

Elective Credit: .5

Prerequisite: None

ADVANCED FABRIC ARTS

Grade Level: 11-12

Students will be allowed to choose their own projects and will complete them with guidance from the teacher. Possible projects may include designing and sewing home furnishing projects such as curtains, quilts or furniture covers. The cost of materials is the student's responsibility.

Elective Credit: .5

Prerequisite: Fabric Arts

FOODS OF AMERICA

Grade Level: 9-12

This semester class will explore foods from the different regions of the United States. Students will be supplied with recipes to prepare in the lab kitchens. Through group work in lab, students will learn a wide range of preparation techniques and the history and origins of foods.

Elective Credit: .5

Prerequisite: None

FOODS EXPLORATION

Grade Level: 9-12

In this semester course, students will have an opportunity to cook and study foods by categories such as: pies, cakes, meats, apples, tomatoes and salsa while learning preparation techniques. Throughout the class students assemble a notebook with preparation principles and recipes.

Elective Credit: .5

Prerequisite: None

ADVANCED FOODS

Grade Level: 11-12

Students choose areas of food to explore in-depth through food preparation and research. Learn to make such things as homemade pasta, fresh herb sauces, elaborate desserts and candies under the guidance of the teacher.

Elective Credit: .5

Prerequisite: Grade of B or better in Foods Exploration or Foods of America

HOUSING

Grade Level: 9-12

This is a semester course that allows students an opportunity to explore the housing option in America. Students will learn the principles of choosing room color and furniture arrangements and architectural styles. Students will create floor plans and design rooms and select furnishings. A field trip to view homes in our area is always a favorite for students.

Elective Credit: .5

Prerequisite: None

CHILD DEVELOPMENT

Grade Level: 11-12

In this semester course students will study how children grow and develop and how to guide children through the early years. This class is designed for students interested in a career working with children. (elementary teacher, childcare employees, psychology or counseling) Students learn through a variety of fun and educational activities and learning.

Elective Credit: .5

Prerequisite: None

ADULT LIVING

Grade Level: 12

This is a required semester course designed to prepare students for adulthood. In class students will learn appropriate expectations for parenting and adulthood. Topics include prenatal development, child guidance techniques and how to enrich a child's home life through books, toys, foods and more. The second half of the semester we will be exploring how to choose a place to live, how to budget money, and adult living skills.

Required Credit: .5

Prerequisite: None

FINE ARTS

ART I

Grade Level: 9-12

An introductory course in basic drawing using pencil, color pencil, water color pencil, experimental water color techniques, sculpture, print making, fiber and fabrics, perspective drawing, and drawing for fun. This is a hands-on class in all media with class assignments. **Students must maintain a "B" average to move on to advanced art.**

Elective Credit: 1.0

Prerequisite: None

ADVANCED ART

Grade Level: 10-12

Advanced work in all media with individual creativity stressed. Concentrated areas in oils, experimental watercolor techniques, glass etching, fibers and fabrics, sculpture, collage techniques, pencil and color pencil rendering.

Elective Credit: 1.0

Prerequisites: One full year of Art I with a "B" or better

FOREIGN LANGUAGE

SPANISH I

Grade Level: 9-12

This class introduces the student to basic Spanish grammar and vocabulary. Attention is given to all language skills including listening, reading, writing, and speaking. The student is also introduced to the cultures of various Hispanic countries and peoples. ***Taking two credits of foreign language is strongly advised for college bound students.**

Elective Credit: 1.0

Prerequisite: Grade “C” or better in English

SPANISH II

Grade Level: 10-12

Spanish II is a continuation of Spanish I. It resumes the study of grammar where Spanish I ended, and continues to focus on improving basic language skills, increasing vocabulary, and on gaining additional cultural knowledge. ***Taking two credits of foreign language is strongly advised for college bound students.**

Elective Credit: 1.0

Prerequisite: Pass Spanish I

MATH

PRE-ALGEBRA

Grade Level: 7-9

Pre-Algebra provides an opportunity to solidify basic mathematical foundations. The course covers a variety of topics such as equations, integers, rational numbers, number relationships, functions, geometry, probability, and statistics.

***Course qualifies for high school graduation credit but not college requirements.**

Math Credit: 1.0 (No credit if taken in middle school)

Prerequisite: None

APPLIED MATH

Grade Level: 10-12

Applied Math incorporates instruction in the properties, processes, and symbols of arithmetic and elements of algebra, geometry, and statistics.

***Course qualifies for high school graduation credit but not college requirements.**

Math Credit: 1.0

Prerequisite: Pre-Algebra or Algebra I

ALGEBRA I

Grade Level: 8-10

Algebra I is an introduction to the theories and properties of basic algebra. This includes in-depth problem solving, graphing equations, systems of equations, and quadratic functions and factoring.

Math Credit: High School: 1.0 (No credit if taken in middle school)

Prerequisite: Math 8 or Pre-Algebra

GEOMETRY

Grade Level: 10-12

Geometry is a structured mathematics course covering the following topics: logic, development of mathematical systems, congruence, direct and indirect proof, 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.

Math Credit: 1.0

Prerequisites: Successful completion of Algebra I

ALGEBRA II

Grade Level: 10-12

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

Math Credit: 1.0

Prerequisite: Algebra I and Geometry (previously or concurrently)

MATH IV

Grade level: 11-12

Math IV is a fourth year of mathematics, which is primarily pre-calculus for college-bound students. Topics include induction, vectors, functions, complex numbers, circular functions, and more.

Math Credit: 1.0

Prerequisites: Algebra, Advanced Algebra and Geometry

ADVANCED PLACEMENT CALCULUS

Grade Level: 12

Calculus is the mathematics of change. The course includes differentiation and integration of a variety of functions. The course is comparable to the first semester of college calculus and covers all topics included in the Advanced Placement guidelines.

Math Credit: 1.0 (Weighted Class)

Prerequisites: Algebra, Advanced Algebra, Geometry and Math IV

MUSIC

CONCERT BAND

Grade Level: 9-12

Concert band consists of all students registered for band. It is one of the most important ways in which 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.

- 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 participate in the Homecoming Show, Memorial Day, and Family Days Parade.
- Chamber Ensembles**-Chamber ensembles include several musicians interested in performing in small groups. Examples include percussion ensemble, woodwind ensemble, brass ensemble, etc. The groups will be formed at the discretion of the director. **(Grades 7-12)**

Elective Credit: 1.0

Prerequisite: At least one year of prior ensemble experience or by audition.

CONCERT CHOIR

Grade Level: 9-12

Concert Choir (Soprano, Alto, Tenor, 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 of the year, the choir (director's option) will prepare music for the state music large-group 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 these performances is required.

Elective Credit 1.0

Prerequisite: None

- **High School Show Choir (Soprano, Alto, Tenor, Bass)**-This is a group of 16-18 singers and dancers (males and females). This group is an audition group, which is selected in the spring of the school year. They prepare various styles of music for concerts, contests/festivals, and local appearances. **A student must be a current member of the high school concert choir.** (Scheduling conflicts will be taken into consideration that wouldn't allow students to be in choir during the year.) Some freshmen (especially guys) may be selected in the fall to fill vacant positions on the request of the vocal music director.
This is a non-credit course.
- **High School Women's Show Choir**-This is a group of 12-24 women singers and dancers. This group comes together in January to begin preparation for music festival and spring concert. They also perform at various civic meetings and concerts. The music is selected from a variety of musical styles. This group is open to all high school choir women with an interest in singing and performing. **This is a non-credit course.**

PHYSICAL EDUCATION

PHYSICAL EDUCATION

Grade Level: 9-12

- Fall: Soccer/Flag Football, Golf, Cricket, Various Dodgeball Games.
- Winter I: Ping Pong, Basketball, Volleyball, Blind Volleyball, Kin Ball.
- Winter II: Floor Hockey, Bowling, Scooter Hockey, Cross Country Skiing/Snowshoeing.
- Spring: Badminton, Pickleball/Tennis, Horseshoes/Bocce Ball, Kickball, Softball.
- Other Activities: Tae Bo/Pilates/Step Aerobics/Dance, Big Base, Wiffle Ball, Team Handball, Archery, National Guard – Climbing Wall and Obstacle/Ropes Course.

Physical Education Credit: .5 per year

Prerequisite: None

PERSONAL FITNESS

Grade Level: 10-12

A body composition analysis and body mass index will be taken at the beginning of activity. Students will set goals and re-evaluate at the end to gauge improvement. The class will follow the BFS (Bigger, Faster, Stronger) Strength Training Program and incorporate SPARQ (Speed, Power, Agility, Reaction, and Quickness) and AIR ALERT (Foot speed and Vertical Jump) workouts into the program as well. Availability of this class **will vary depending on teacher schedules.**

Elective Credit: .5 per year

Prerequisite: None

HEALTH

Grade Level: 10

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).

Required Credit: .5

Prerequisites: None

SCIENCE

PHYSICAL SCIENCE

Grade Level: 9

Physical Science is a study of the physical properties of science as they relate and influence our daily lives. Topics include Matter, Optics, Heat, Energy, Electricity, Motion, Forces and Atomic Structure.

Science Credit: 1.0

Prerequisite: None

BIOLOGY

Grade Level: 10-12

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 the Scientific Method, basic chemistry, cells, genetics, and the 5 kingdoms of living things.

Science Credit: 1.0

Prerequisite: Physical Science

CHEMISTRY

Grade Level: 11-12

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 laboratory to understand this field of science. Topics include the "language" of chemistry, the periodic table, chemical reactions, solids, liquids, and gases.

Science Credit: 1.0

Prerequisites: Physical Science, Biology, and Algebra I

ADVANCED BIOLOGY

Grade Level: 12

This is a closer look at biology where students will study the human body as an example. This class primarily deals with anatomy and physiology from the biochemistry of the human cell to our gross (visible) anatomy.

Science Credit: 1.0 (Weighted)

Prerequisites: Physical Science, Biology, and Chemistry

PHYSICS

Grade Level: 12

Physics is a conceptual presentation of the relationship between mass and energy. Topics include mechanics, Newton's laws, relativity, properties of matter, heat, sound, light, electricity, magnetism, atomic and nuclear physics.

Science Credit: 1.0

Prerequisites: Algebra, Geometry, and Chemistry

ANIMAL SCIENCE

Grade Level: 9-12

This class will use a variety of strategies to examine the vast diversity of animals in the world with an emphasis on those cared for by human beings. We will look at all types of animals in all corners of the world, then take a deeper look at some that are domesticated and used in agriculture. Major topics will include careers with animals, anatomy & physiology of animals, taxonomy of animals, animal care, and agriculture.

Science Credit: .5

Prerequisite: None

PLANT SCIENCE

Grade Level: 9-12

In this class we will be covering various aspects of plants and plant growth. We will examine topics such as the anatomy of plants and their parts, the functions of those parts, how and why plants grow, soil examination, and specific types of plants found in Wisconsin. We will be outside and in the greenhouse as much as possible doing hands-on work with plants, also.

Science Credit: .5

Prerequisite: None

ENVIRONMENTAL SCIENCE

Grade Level: 11-12

Students will study science from an environmental and ecological perspective rather than from a conceptual perspective. Units of study will be varied with possible topics to include soils, water, atmosphere, weather, human impact, and others. The class emphasizes relationships and will attempt to teach students to learn more about their environment through readings, discussions, and use of technology. Students will also have field trip opportunities to observe the environment on a personal level.

Science Credit: .5

Prerequisite: Pass Physical Science and Biology or with Instructor Approval

SOCIAL STUDIES

WORLD HISTORY

Grade Level: 9

Grade 9 World Studies focuses on world geographical regions and the people who live there. We discuss the countries of the world learning about each country's history, geography, government, economy, people, and points of interest. An emphasis is placed on international "hot-spots" and how these areas affect the United States and our foreign policy. At the same time we will be examining current world events making connections between them and our subject matter.

Social Studies Credit: 1.0

Prerequisites: None

AMERICAN HISTORY 10

Grade Level: 10

This course is a general survey of American History from the foggy beginnings of American History up through the Civil War. This course will demonstrate that history is a never-ending story of social change that can continue to affect people today and still cause contemporary problems. The major topics this course will address are geography of the nation, Native Americans, exploration, imperialism, territorial expansion, transformation of our political systems, economic development, the tests of war, "American;" ideals, values, beliefs; and more.

Social Studies Credit: 1.0

Prerequisite: World History 9

U.S. HISTORY 11 (Post Civil War)**Grade Level: 11**

This course is a survey of events that have transpired from 1865 to the present, including political, economic, social, and cultural history. There are two major goals that this class will achieve. The first is to give the students a first hand glimpse at war; its horrors, its heroes, and everything in between. The second goal is to give students a better understanding of the events that have transpired in the last 100 plus years. The units of study are Immigration and Urbanization, Progressivism, Imperialism, World War I, the 1920's, the Great Depression, World War II, the 1950's, Cold War, Civil Rights, Vietnam, Age of Limits, Conservative Tide, and the 1990's. If time permits, there will be a chapter on Somalia and Iraq. Throughout the course, students will realize that history is an ongoing process in which situations in the past create problems for the future. In order to see this connection, students will also analyze current events.

Social Studies Credit: 1.0**Prerequisite: American History 10****SENIOR SOCIAL STUDIES****Grade Level: 12**

This course is divided into two sections. First semester the students will study economics, which is designed to acquaint the students with the basic economic problem: too many wants but limited resources. They will apply this problem to all levels of economic activity. Second semester students will focus on the behavioral science of sociology. In the process the students will also touch on the surrounding behavioral sciences of psychology and anthropology. Students will gain insight on the individual, group, and cultural forces that move us all.

Social Studies Credit: 1.0**Prerequisite: U.S. History 11****HISTORY OF HUMAN BEHAVIOR****Grade Level: 11-12**

The purpose of this course is to introduce students to the systematic and scientific study of behavior and mental processes of human beings. Students are exposed to the psychological facts, principles, and phenomena associated with the major areas of psychology. Some of these areas include: Personality, Motivation and Emotion, Learning, Thinking, and Intelligence, Memory, and Psychological Disorders.

Elective Credit: 1.0**Prerequisite: Juniors wanting to take the course must get approval from the instructor**

TECHNOLOGY EDUCATION**SMALL ENGINES****Grade Level 9-12**

This course deals with the theory, operation and maintenance of four and two cycle small gas engines. Topics include careers, tool identification and use, principles of gasoline engines, preventative maintenance, and repair. Students will have the opportunity to overhaul their own engines or do maintenance on them.

Elective Credit: .5**Prerequisite: None****TECHNOLOGY EDUCATION I****Grade Level: 9-12**

Students learn and study the four areas of Technology Education including Transportation, Communication, Manufacturing, and Construction. Students learn by building scale model projects and doing hands-on group projects. This class is almost all problem solving.

Elective Credit: 1.0**Prerequisite: None**

TECHNOLOGY EDUCATION II

Grade Level: 10-12

Students expand on the four areas of Technology Education. Students learn by building scale model projects and doing hands-on group projects. This class is almost all problem solving.

Elective Credit: 1.0

Prerequisite: Technology Education I

TECHNOLOGY & NATURAL RESOURCES

Grade Level: 10-12

This course deals with the natural resources and management practices. Topics include career opportunities, historical background, philosophy, definitions, and multiple uses of natural resources, ecology, wildlife management, water resources, and air pollution.

Elective Credit: .5

Prerequisite: None

MANUFACTURING

Grade Level: 10-12

In this introductory course students will be introduced to materials and techniques used in manufacturing. Students will work with machinery and processes associated with the Manufacturing industry such as layouts, separating, forming, assembly and finishing. Students will also be introduced to the similarities in processes used in the plastics industry. Students will use these processes to build projects that will reinforce these concepts.

Elective Credit: .5

Prerequisite: Tech. Ed. 1

PHOTOGRAPHY

Grade Level: 11 - 12

Students learn the basics of black and white photography, taking pictures, developing negatives, and making prints. Students will also learn digital camera use, digital editing, and printing. Video editing using is also available.

Elective Credit: .5 Prerequisite: Grade of "B" or higher in Art I or with instructor approval

WELDING I

Grade Level: 11-12

Students learn the basics of arc, gas, and wire-feed welding. Welding consists mostly of practice welding on small scrap metal pieces. One or two small projects will also be done, such as a chipping hammer or toolbox.

Elective Credit: .5

Prerequisite: None

WELDING II

Grade Level: 11-12

Students expand on what they learned in Welding I. More complex welds and projects will be done.

Elective Credit: .5

Prerequisite: Must have a "C" or better in Welding I

WOODS

Grade Level: 11-12

Students learn the basics of Woodworking and Cabinet Making. Students will each build their wood project to take home, from cutting the wood to the final coat of finish.

Elective Credit: .5

Prerequisite: None

POWER**Grade Level: 12**

Students learn basic automotive care such as oil changes, tire rotations, brakes, lubrication, and electrical repairs. Students also do small engine repairs and maintenance. Students need to bring in a vehicle to learn with and small engines to work on.

Elective Credit: .5**Prerequisite: None, but students need to provide their own vehicles and small engines to work on. If you take Power you cannot take Home and Auto.****CONSTRUCTION****Grade Level: 12**

Students learn basic construction methods and materials. To practice what they learn, students will build one or two backyard storage sheds that are then sold to the public.

Elective Credit: .5**Prerequisite: None****HOME & AUTO****Grade Level: 11-12**

Students learn basic/common home repairs such as electrical, plumbing, sheet rock patching, painting, and many other do-it-yourself repairs. Basic car care such as oil changes, tire rotation, regular service checks, and interior care will be covered.

Elective Credit: .5**Please Note: If you take Home and Auto you cannot take Power**

ADDITIONAL OPTIONS

LIBRARY AIDE**Grade Level: 9-12**

The faculty and administration of the Frederic 6-12 School promote and support the use of qualified students as library aides. Using the talents and skills of our students is viewed as beneficial for teachers, students, and the District. Students must have a full program as defined in the Student Handbook or be approved by the counselor and principal to be eligible for this program. Students also must have a contract signed and on file to be part of this program. Students must have passing grades to be an aide and may receive up to (.25) credit for a semester's work. Additional requirements for the aide and tutoring program can be found on the policy statement teachers have developed.

Elective Credit: .25 per semester *Library Aides will be responsible for Moodle coursework.***Prerequisite: Must meet policy requirements described in the contract****STUDENT AIDE****Grade Level: 9-12**

The faculty and administration of the Frederic 6-12 School promote and support the use of qualified students as teacher assistants. Using the talents and skills of our students is viewed as beneficial for teachers, students, and the District. Students must have a full program as defined in the Student Handbook or be approved by the counselor and principal to be eligible for this program. Students also must have the tutoring/teacher assistance contract signed and on file to be part of this program. Students must have passing grades to be an aide or tutor and may receive up to (.25) credit for a semester's work. Additional requirements for the aide program can be found on the policy statement teachers have developed.

Elective Credit: .25 per semester, pass/fail**Prerequisite: Must meet policy requirements described in the contract**

PEER TUTOR**Grade Level: 10-12**

Peer tutors will be available to work with Frederic students. Some may be assigned certain students or classrooms, and others will be available to answer questions and help when the need arises.

Along with the responsibility of tutoring fellow students, Frederic tutors will also complete a variety of assignments and participate in online discussions in order to receive credit for the course.

Elective Credit: .50 per semester**Prerequisite: Minimum Cumulative GPA 3.0, Must have recommendations from two teachers****INDEPENDENT STUDY****Grade Level: 11-12**

Independent study is a program designed to provide the motivated learner an opportunity to direct his/her learning experience. Independent learning classes/projects need prior approval from the administration, counselor, and appropriate teacher. The student will need to contract with the teacher in the appropriate content area so that they have a faculty advisor on their class/project. Grading for the project may be letter grades or pass/fail with the instructor making the decision. Equipment and/or curriculum materials that need to be purchased for independent study classes/projects are the responsibility of the student.

Elective Credit: .5 per semester**Prerequisite: Approval by Administration, Counselor, and Staff****CORRESPONDENCE COURSES****Grade Level: 9-12**

Students may apply to take correspondence courses in areas we do not offer. Courses need to be approved by a combination of the administration, counselor, and appropriate teaching staff. Students must pay for the cost of the course and only courses from accredited institutions will be approved.

Approved courses that meet the requirements of the Youth Options program may be reimbursed by the district. Students will not be reimbursed for courses taken to make up for required courses failed at the local level. This also applies to course work students may take at a technical school or college.

Required or Elective Credit Depending on the Course: Credit Amount also varies**Prerequisite: Approval by Administration, Counselor, and Staff****WORK BASED LEARNING****Grade Level: 11-12**

Students with the status of junior or senior may qualify for the work-based learning program. Students can be released from school for a maximum of two periods per day and a total of ten periods during the week. Students must complete a written request for the work based learning program and be approved by the appropriate individuals before they can be enrolled in this class. A copy of the policies set forth by the school should be reviewed and all requirements and policies must be completed in order to be released from school and to receive credit for work experience. To remain eligible for the work program, students must maintain grades at a "D" or better during the current semester. A faculty work release committee made up of the principal, counselor, and appropriate staff will review special circumstances.

Elective Credit: 1.0 credit per year, pass/fail**Prerequisite: None**

YOUTH OPTIONS

Grade Level: 11-12

The Youth Options Program allows 11th and 12th grade students to enroll in one or more courses at a University of Wisconsin campus or center, a technical college, or a private, nonprofit college located in the state. Students must meet the entrance requirements of the institution. Only courses that do not duplicate FHS coursework may be approved by the board of education.

A postsecondary course approved for high school credit shall be granted $\frac{1}{4}$ high school credit per one semester credit offered by the postsecondary course. For postsecondary courses taken for high school credit, if the course is not comparable to a course offered in the district, the school district is required to pay as required by law. If the course is taken for high school credit and is comparable to a course offered in the district, the student shall pay as required by law. If a student fails or withdraws from the class after the allowed drop period, the district will require reimbursement from the parent. The school district is not responsible for tuition for non-approved courses. The total number of credits a student may earn is 18 while in high school. If a student receives a failing grade in a course or fails to complete the course, the student's parent/guardian or the student, if an adult, is responsible for reimbursing the district for payment of the tuition and fees paid by the district.

Applications for enrollment must be made by **March 1** for the fall semester, and by **October 1** for courses to be taken during the spring semester. Please see Mr. Robinson for further information.

Elective Credit: depends on student schedule

Prerequisite: None