

FLOODWOOD
SCHOOL
Course
Catalog

2021-
2022

Floodwood School Course Catalog 2021-2022

Table of Contents

Catalog Layout/Definitions	1
Graduation Requirements (Course Requirements)	2
Graduation Requirements (Assessment Requirements) & Schedule Changes	3
Planning for Post-Secondary	4
Art	5
Career & Technical Education	7
Language Arts	13
Math	21
Music	30
Physical Education	32
Science	37
Social Studies	44
Technology	49
World Language	53
Other Course Offerings	54

Catalog Layout

On the pages that follow, you will find definitions that occur throughout the catalogue and copies of the registration sheets that students will use to register for their 2020-2021 school year. The courses themselves are arranged in order from seventh through twelfth grade offerings, with those required and offered this year positioned toward the front of each subject area.

Definitions

Traditional year—a course that meets for one class period every day for 36 weeks or the entire school year. Traditional year courses earn one (1) credit.

Traditional semester— a course that meets for one class period every day for 18 weeks or ½ the school year. Traditional semester courses earn one half (0.5) credit.

GRADUATION REQUIREMENTS

Course Credit Requirements

(For all students planning to receive a Floodwood High School diploma)

For the graduating class of 2020 and beyond, all students must successfully complete a minimum of 24 high school credits (14.5 required and 9.5 electives) in order to graduate and fulfill state requirements.

<u>Subject</u>	<u>Required Credits</u>
Language Arts	4.0
Social Studies	3.5
Science	3.0
Math (must complete Algebra II)	3.0
Physical Education	0.5
Health	0.5
Total Required Credits	14.5
General Electives	8.0
Technology	0.5
Art/Media Elective Required	1.0
Total Elective Credits	9.5

Total Minimum Required Credits for Graduation 24.0

PSEO College Credit vs. High School Credit Comparison: 1 = .25, 2 = .50, 3 = .75, 4 = 1.0

See Course Catalog for what courses qualify for high school credit. It is the student's responsibility to make sure they have enough credits for graduation. Course Offerings are subject to change based on student interest and/or teacher availability. Students may be enrolled in classes not listed due to scheduling conflicts or additions to the schedule.

Assessment Requirements

In order to be eligible for a diploma from a Minnesota public high school, all students must fulfill graduation assessment requirements in writing, reading, and mathematics. Based on the revisions to Minnesota Statutes, section 120B.30, the graduation assessment requirements have changed. Beginning 2016-2017, all juniors and seniors who didn't take the ACT Plus Writing will be required to take the ACT Plus Writing or Armed Services Vocational Assessment Battery (ASVAB) prior to receiving their diploma.

Schedule Changes

Seniors are required to be in five (5) classes for credit each semester. Students in grades 9th-11th are required to be in six (6) classes for credit. During the registration process, students are informed and encouraged to make careful course selections. These selections are used to build school schedules and establish staffing needs. In order for schedule changes to be honored, a Schedule Change Request form must be completed and returned to the office before the end of the 1st day of the semester. Requested changes to a student's schedule will be honored only in certain circumstances. These may include:

- Failing a prerequisite
- Gaps in a student schedule
- Needing to fulfill graduation requirements
- Extension or remediation courses driven by data
- Teacher requested changes

Some reasons schedule change requests may not be honored:

- Changing teachers
- Changing class hours
- Requesting classes with friends
- Dropping required courses
- Convenience

Some schedule changes require the signature of a parent. In addition, schedule changes made on or after the first day of the quarter must have a signature from the teacher of the class to be dropped and the class to be added as well as a parent/guardian signature. Students who drop a course after the 4th week shall receive a failing grade (F) for each marking period of the course and online courses dropped after the 2nd week will receive a failing grade (F). Grading for dropped courses at the college level are specific to each institute.

PLANNING FOR POST-SECONDARY

Students should tailor their four-year high school plans to fit their abilities, desires, and career goals. Although it is best to wisely choose a plan and work hard toward chosen career and college goals, we recognize that situations, opportunities, and plans change. When this occurs, students may switch between programs. Students and parents should bear in mind, however, that the later in high school plans change, the harder it may be to work in courses and requirements on the schedule. Students may enter **technical colleges, business colleges, selected four-year colleges, junior colleges, the armed forces, or they may choose to go directly into the workforce after graduation.**

Students graduating from high school must meet preparation requirements for admission to Minnesota State Universities. In addition to the requirements to graduate from Floodwood School, the following “specifics” are required for many universities.

Subject	Requirements	Specifics
Language Arts	Minimum of 4 years	
Mathematics	Minimum of 3 years Some require 4 years	Pre-Calculus is preferred
Science	Minimum of 3 years	Physics and/or Chemistry
Social Studies	Minimum of 3 years	
World Language	Minimum of 2 years	Single World Language
Electives	Minimum of 1 year	Fine Arts

Private colleges and universities in Minnesota and state universities outside of Minnesota have a wide range of admissions requirements. Students are encouraged to inquire about requirements for colleges they are interested in attending. In addition to coursework requirements, many colleges and universities have freshman entrance tests that students must pass in order to register for college level courses. Some post-secondary schools set world language proficiency as a graduation requirement. Some colleges and universities require students to be Calculus-ready in mathematics for admission.

Courses Required for Military Enlistment

The U.S. military currently holds a high standard for recruitment of enlistees. The vast majority of students who are enlisted into the military hold high school diplomas. The military has a very limited number of jobs available to students who are not high school graduates.

1. Preparation for a military career should include the same coursework as preparation for admission to a Minnesota state university. Students wishing to enter the military as officers should inquire about ROTC programs or military academy opportunities.
2. Students are encouraged to determine a non-military vocational interest and try to match their vocational interest to a military job. The Armed Forces have many jobs that parallel civilian careers. Military recruiters can provide additional information about the kinds of jobs available to students who are interested in the military.

Art

Intro to Art: 7- 8- 9

Required for students grades 7-8 -9 not in Band

Prerequisite: None

Offered: Fall

Duration: Traditional Semester

High School Credit: 9th Grade- Fine Arts

Course Description: Students will explore the world of the arts to learn about art elements and principles, media and techniques while looking at different art styles and artists. Students will understand how art is a language humans use to record events, tell stories and observe the world around them. Students are expected to keep a sketch journal. Grades are based on participation, and demonstration of understanding objectives through following directions to complete projects, writing an artist statement and presentation of artwork.

3D: Ceramics & Sculpture

Elective for Grades 10-12

Prerequisite: none

Offered: Fall

Duration: Traditional semester

High School Credit: 0.5 credit visual art

Course Description: Students will gain an understanding of the elements, principles, and design concepts that serve as a foundation for all works of art. Students will explore the different mediums available to create 3-dimensional artwork. Clay, recycled items, wood, paper, fiber, wire and other mediums may be used. Students are expected to keep a sketch journal, develop writing artist statements about their work, discuss artworks, research artists, sculptural methods and techniques and presentation of artwork.

2D: Drawing and Painting

Electives for Grades 10-12

Prerequisite: none

Offered: Spring

Duration: Traditional semester

High School Credit: 0.5 credit visual art

Course Description: Students will explore the language that artists use to create art through different media in drawing and painting. Students practice how to accurately see and record objects from real life, examine the design cycle with emphasis on the formal principles of composition, practice the creative process, record ideas and convey meaning in their artworks. Grades are based on participation, and demonstration of understanding of objectives to complete projects, artist statements, portfolio, and presentation of artwork.

Fiber Arts

Elective for Grades 10-12

Prerequisite: none

Offered: fall

Duration: Traditional semester

High School Credit: 0.5 credit visual art

Course Description: Fiber Art is a style of fine art that uses textiles such as fabric, yarn, natural and synthetic fibers. Students will learn about fiber and where it comes from and how it is processed for different purposes. Students will learn to work with fibers in a variety of techniques to experience weaving, embroidery, felting, and book arts. Grades are based on participation, and demonstrating an understanding of objectives through following directions to complete projects, artist statements and portfolio and presentation.

Digital Photography

Elective for Grades 10-12

Prerequisite: none

Offered: spring

Duration: Traditional semester

High School Credit: 0.5 credit visual art

Course Description: Digital photography is a graphic art media. You will explore ways to view the world. Learn the basics principles of photography, discover light, time and subject matter. Students gain an understanding of the elements and principles of art and how to create visual compositions and compose narratives about your work. Students learn about the history of photography, the camera and famous photographers. Grades are based on participation, and demonstrating an understanding of objectives through following directions to complete projects, write artist statements, build a portfolio and present their work.

Career & Technical Education

Career & Technical Education 7

Required for students in grade 7

Prerequisites: None

Required Supplies: Safety Glasses, Pencil

Shop Fee: \$35.00

Optional Supplies: None

Offered: Every year

Duration: Traditional semester

High School Credit: None

College Credit: None

Course Description: The purpose of this class is to prepare students for the woodworking industry, including: lumber identification, how lumber is made, and develop projects from a working drawing to a finished project. Course outline to include: tool and shop safety, reading a tape measure, tool identification, being trained to use each of the machines in the wood shop, taking material from a rough sawn lumber stage to a surfaced 2 faces and 2 jointed edges, glueing boards together, and building a project that will incorporate each of the tools. Students must wear safety glasses during project time and pass a safety test on all equipment. Projects will be determined by the class at the beginning of the semester.

Career & Technical Education 8

Required for students in grade 8

Prerequisites: None

Required Supplies: Safety glasses, Pencil

Shop Fee: \$35.00

Optional Supplies: None

Offered: Every year

Duration: Traditional semester

High School Credit: None

College Credit: None

Course Description: The purpose of this class is to prepare students for the woodworking industry, including: lumber identification, how lumber is made, and develop projects from a working drawing to a finished project. Course outline to include: tool and shop safety, reading a tape measure, tool identification, being trained to use each of the machines in the wood shop, taking material from a rough sawn lumber stage to a surfaced 2 faces and 2 jointed edges, glueing boards together, and building a project that will incorporate each of the tools. Students must wear safety glasses during project time and pass a safety test on all equipment. Projects will be determined by the class at the beginning of the semester.

Career & Technical Education 9

Elective for students in grade 9

Prerequisites: None

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered: Every year

Duration: Traditional semester

High School Credit: 0.5 credit

College Credit: None

Course Description: The purpose of this class is to prepare students for the woodworking industry, including: lumber identification, how lumber is made, and develop projects from a working drawing to a finished project. Course outline to include: tool and shop safety, reading a tape measure, tool identification, being trained to use each of the machines in the wood shop, taking material from a rough sawn lumber stage to a surfaced 2 faces and 2 jointed edges, glueing boards together, and building a project that will incorporate each of the tools. Students must wear safety glasses during project time and pass a safety test on all equipment. Projects will be determined by the class at the beginning of the semester.

Automotive Technology I

Elective for students in grades 9-12

Prerequisites: None

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered: Every other year

Duration: Traditional semester

High School Credit: 0.5 technology credit

College Credit: None

Course Description: The purpose of this course is to gain knowledge of the automobile by using the Motor Automotive Technology book. Course topics include safety, basic car maintenance, fluid change, basic tire change, basics of an engine, the purpose of compression-spark and fuel for an engine, and rebuilding a carburetor. Projects can be brought in by the student if approved by the instructor.

Automotive Technology II

Elective for students in grades 9-12

Prerequisites: None

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered: Spring Every other year

Duration: Traditional semester

High School Credit: 0.5 technology credit

College Credit: No

Course Description: The purpose of this course is to gain knowledge of the automobile

by using the Automotive class using Motor Automotive Technology by Anthony Schwaller. Course topics include safety, two- and four-cycle motors, gas and diesel motors, engine types, engine construction, cylinder head and valves, camshafts and valve lines, lubricants and oils, cooling systems, carburetor systems, and injection systems. Additionally, students in this course will have the opportunity to work in the biodiesel, air conditioning, and alignment labs at Hibbing Community College.

Car Care

Elective for students in grades 9-12

Prerequisite: None

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered: Every other year

Duration: Traditional semester

High School Credit: 0.5 cr. technology

College Credit: None

Course Description: The purpose of this course is to gain knowledge of automobiles by using the *Motor Automotive Technology* book, internet searches and reports, and automotive programs, i.e. *Two Guys Garage*, *CCR*, *Tuner-Transformer*, *Speed Channel*, *American Choppers*, *Trucks*, and other related programs. Course topics include safety, common hand tools, automotive belts and hoses, automotive batteries, tire construction and characteristics, two- and four-cycle motors, gas and diesel motors, engine types, engine construction, micrometer measurements to 0.001 inch, lubricants and oils, cooling systems, carburetor systems, injection systems, car buying, and *NADA Blue Book* and other reference materials. Students are expected to follow all safety rules including wearing safety glasses during project time, cleaning area, and returning tools.

Home Repair

Elective for students in grades 9-12

Prerequisites: None

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered: Spring 2020

Duration: Traditional semester

High School Credit: 0.5 cr. elective

College Credit: None

Course Description: In the United States, there are more than 100 million housing units and the majority of them are “single family dwellings” or houses. In cities, in the suburbs and in rural communities, houses are a very common sight. Have you ever wondered how a house is built? What holds up the ceilings and the walls? What keeps the rain out? What parts go into making a house? How many different people are involved when a house goes up? Home Repair will focus on common problems that homeowners have and will learn how to resolve these problems without having to contact a contractor. You will learn things like how to install a toilet, a faucet, repair and replace an outlet and light switch,

repair a leaking roof, install a new water heater, fix a broken cabinet door, adjust a door that does not close, and many more simple home repairs and DIY projects that will benefit any student.

Computer Aided Drafting and Design (CADD)

Elective for students in grades 9-12

Prerequisite: None

Required Supplies: None

Optional Supplies: None

Offered: Spring 2016-2017 Every other year

Duration: Traditional semester

High School Credit: 0.5 cr. technology

College Credit: None

Course Description: Students who successfully complete this course will be able to create geometric construction designs and know how to properly use construction and editing tools, understand object properties and organizations, orthographic views in multiview drawing, basic dimensioning and notes, and templates and plotting. Students are expected to make a working drawing, come prepared for class, maintain an Autocad folder, complete assignments on time, and complete a final project.

Construction I

Elective for students in grades 9-12

Prerequisite: None

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered: Fall 2016-2017 Every other year

Duration: Traditional semester

High School Credit: 0.5 cr. technology

College Credit: None

Course Description: Those interested in construction can find jobs with various companies and can become private business owners in their own right. Construction involves many aspects pertaining to the building of homes, business offices, municipal sites, and other types of architecture. Educated students in construction can learn about electrical systems, carpentry, and plumbing. This course includes the construction of a 1/8 inch =1 foot scale model house. Students will learn how to design and layout a house; material characteristics and uses of wood, brick, block, and metal; and cost estimation through the creation of a self-designed project.

Construction II

Elective for students in grades 9-12

Prerequisite: None

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered: Spring 2016-2017 Every other year

Duration: Traditional semester

High School Credit: 0.5 cr. technology

College Credit: None

Course Description: This course includes, but is not limited to, students designing a small building, typically 8' by 8' and building it from the ground up. All work will be done under the supervision of the Technology Teacher to insure quality workmanship. This project could be done for community members or to be taken home after completion.

General Woods

Elective for students in grades 9-12

Prerequisites: None

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered: Every year

Duration: Traditional semester

High School Credit: 0.5 cr. technology

College Credit: No

Course Description: This is a course designed for students to gain experience in working with all of the equipment in a wood shop. Topics of study include types of wood, safety and problem solving, and correct methods of construction and manufacturing. Time will be given for students to create a custom wood project.

CTE Blocks 5a/b, 6a/b, 7a/b

Elective for students in grades 9-12

Prerequisite: None

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered: Every year

Duration: Traditional semester

High School Credit: 0.5 cr. technology per credit hour

College Credit: None

Course Description: Students will begin the course going through tool safety and tool identification. This course will be available for students to take as a 3 hour block schedule. The purpose of this course is to incorporate as many of the different trades through projects that are for the student or projects that we will do for the community. This course will have the potential to work on design, wood construction, plumbing, electrical, siding, roofing, insulating, interior and exterior trim, cabinetry, welding, automotive and any skill/trade that the project requires to give the students a broad spectrum of what is available in the trades. This course is designed to prepare and give the skills and the knowledge of what trades are available in today's workforce. This course will encompass and align with the following courses during the block schedule:

Auto I, Construction I & II, General Woods, Home Repair, Cabinet Making and Car Care.

Cabinet Making

Elective for students in grades 9-12

Prerequisite: None

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered: Varying Semesters

Duration: Traditional semester

High School Credit: 0.5 cr. technology

College Credit:No

-Course Description: This course covers development of more advanced knowledge and skills in the furniture and cabinetmaking industry. Emphasis is placed on construction and design of a cabinet project which would include doors, drawers, and the correct finishing of a cabinet project. Skills in leadership, safety, mathematics, planning, and problem solving are reinforced in this course.

Welding I

Elective for students in grades 9-12

Prerequisites: None

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered: Fall Semester

Duration: Traditional semester

High School Credit: 0.5 cr. technology

College Credit:No

Course Description: This is a course for beginning arc welding skills with an emphasis on SMAW for one quarter and MIG welding for the second quarter. Safety, power sources, electrode identification, weldability of metals, joint design, plasma torch and oxy-acetylene cutting, and introduction to GTAW and GMAW are covered in this course. Course activities include learning to weld stringer and weave beads and butt and fillet welds in flat, horizontal, vertical, and overhead positions. Students will perform all five (5) basic welds with an arc welder, cut with a torch, perform plasma cutting on thin metal, and complete a final project.

Welding II

Elective for students in grades 9-12

Prerequisite: Welding I

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered: Spring Semester

Duration: Traditional semester

High School Credit: 0.5 cr. technology

College Credit: None

Course Description: This course emphasizes a deeper knowledge of Arc and MIG welding, developing skills to be confident in your welding ability on numerous gauges of metal. This course gives students a deeper understanding of welding basics. Students will construct a steel frame trailer or other similar project to show their welding skills in a real world project. If time permits we will introduce TIG welding. TIG (Tungsten Inert Gas) is an inert gas welding course also known as Heliarc that covers aluminum, mild steel, stainless steel, magnesium, and copper welding. The course consists of welding on flat and pipe stock in all positions. Course content will include metals identification and weld symbols. Welding exercises are stressed to develop welding skills.

Senior Shop

Elective for students in grades Grade 12 Only

Prerequisite: None

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered:

Duration: Traditional semester

High School Credit: 0.5 cr. technology

College Credit: No

Course Description: Students are engaged in the designing and manufacturing of metal products. Students work mostly on independent projects designed by students and staff. Students may opt to design and build projects for resale to local business and community members.

CREATIVE METAL FABRICATION AND DESIGN

Elective for Students in Grades 9-12

Prerequisite: None

Required Supplies: Safety Glasses, Pencil

Optional Supplies: None

Offered: Spring Semester

Duration: Traditional Semester

High School Credit: 0.5 Credit Technology or 0.5 Credit Art

College Credit: No

Course Description: This course is designed to introduce the student to different types of metals and what can be created with them. Students will have the opportunity to research and study how metals have been used to manufacture/create many of the items we use everyday. Students will explore and research careers in the metal fabrication industry. There will be opportunities for students to fabricate artistic metal projects. Students will learn to properly and safely use metal working equipment to shape, design, and create projects from metal. May be counted as an Art Elective.

Language Arts

Students must complete 4.0 HS credits of Language Arts for graduation.

Language Arts 7

Required for students in Grade 7

Prerequisites: None

Required Supplies: Standard notebook, composite notebook for journaling, writing materials, highlighters, school issued electronic device, independent novel

Offered: Every year

Duration: Traditional year

High School Credit: None

Course Description: Students will study units on *Wonder*, *Native Defenders of the Environment*, and *Out of the Dust*, read short stories, nonfiction, and poetry. We will write poetry, short stories, and expository essays. We will also develop our skills in grammar, punctuation, spelling, and public speaking. Students will be reading independent novels of their choice, one per quarter.

Language Arts 8

Required for students in Grade 8

Prerequisite: None

Required Supplies: 2 spirals (one for journaling, one for notes), writing materials, independent novel

Offered: Every year

Duration: Traditional year

High School Credit: None

Course Description: Students will expand vocabulary, grammar, usage, and mechanics skills. Sentence fluency will be stressed throughout the study of voice, ideas/content, word choice, and organization as students work on the writing process. We will study individual units of poetry, mythology, short stories, drama, and public speaking. Throughout the year we will read novels such as *The Outsiders*, *Night*, and *MacBeth* along with many young-adult novels of student choice.

Language Arts 9

Required for students in Grade 9

Prerequisites: None

Required Supplies: 2 Spiral Notebooks (one for journaling, one for notes), Pen and Pencil, and independent novel.

Offered: Every year

Duration: Traditional year

High School Credit: 1 cr. language arts

Course Description: This course will cover the grammar and writing basics, the formal essay, and a survey of all genres of literature. We will read short stories, poetry, non-fiction, plays, and novels. We will also study Shakespeare's play, *Romeo and Juliet*.

Language Arts 10

Required for students in Grade 10

Prerequisites: None

Required Supplies: Notebook, writing utensil, reading book, and disk or flash drive

Offered: Every year

Duration: Traditional year

High School Credit: 1 cr. language arts

Course Description: This course will focus on some of the classics in World and contemporary American Literature. We will read novels as well as some short stories, poems, non-fiction. We also work on writing, an essential component to a full high school education.

Language Arts 11/12 A

Required for students in Grade 11/12

Prerequisite: None

Required Supplies: Notebook, writing materials, reading book

Offered: 2021-2022

Duration: Traditional year

High School Credit: 1 cr. language arts

Course Description: From the first stories told in ancient Greece, to Chinese poetry of the Tang Dynasty, to South African short stories, to Middle Eastern literature, and tales of the Bard, we get to read into the lives of people from around the world—their thoughts, emotions, adventures, and experiences. Through these readings, we will incorporate reflective and expository essays, meeting all graduation requirements. In addition students will focus on significant works of American literature - traditional, contemporary, and multicultural. An important part of the core is the historical survey of American literature. Students will identify major movements in the development of American literature (Colonialism, Revolutionary, Romanticism, Realism, Naturalism, Modern) and identify main currents of thought, types, and characteristics of that literature. Students are made aware of the parallels between American history and literature.

Language Arts 11/12 B

Required for students in grade 12

Prerequisite: None

Required Supplies: Composition Notebook, writing utensil, reading book, charged school device

Offered: 2021-2022

Duration: Traditional year

High School Credit: 1 language arts

College Credit: None

Course Description: This will be an adventure with the Anglo-Saxons and Beowulf, a romance with King Arthur and Guinevere, Shakespeare's comedy *Much Ado About*

Nothing, a satire with *The Canterbury Tales*, and comic relief with Monty Python and with some of the real lives of England's kings and queens. This class will also include writing varied essays, including a research paper, that will meet the writing requirements for graduation.

Journalism

Elective for students in grades 9-12

Prerequisites: None

Required Supplies: 2 spirals, writing materials

Offered: Spring 2020

Duration: Traditional Semester

High School Credit: 0.5 cr. language arts

College Credit: None

Course Description: This course equips students with an understanding of the principles and practice of journalism: how to recognize good stories, gather facts through skillful interviewing and research, develop sources, craft welcoming leads and satisfying endings, and create news and feature articles that inform and engage readers. Rewriting to achieve mastery is particularly emphasized. Students also learn the difference between journalism and public relations and how to structure narratives to fashion different types of articles.

Short Stories

Elective for students in grades 11-12

Prerequisites: None

Required Supplies: 2 spirals, writing materials

Offered: N/A

Duration: Traditional semester

High School Credit: 0.5 cr. language arts

College Credit: None

Course Description: Enter the world of short stories as we explore units in: horror, detective fiction, psychological realism, fantasy, and science fiction. We will reinforce literary concepts and respond/reflect through our writings. A chance to step out of the ordinary in literature!

Humanities

Elective for students in grades 11-12

Prerequisites: None

Required Supplies: Notebook, writing materials, reading book

Offered: N/A

Duration: Traditional semester

High School Credit: 0.5 cr. language arts

College Credit: None

Course Description: The human race has many needs - some are basic, while others revolve around relationships, responsibilities, and self-actualization. Using Maslow's Hierarchy of Needs, students will explore human reactions and interactions through short

stories, documentaries and movies, novels, nonfiction, and writing.

Memoir Immersion

Elective for students in grades 11-12

Prerequisites: None

Required Supplies: Notebook, writing materials, reading book

Offered: N/A For Now

Duration: Traditional semester

High School Credit: 0.5 cr. language arts

College Credit: None

Course Description: A great memoir highlights the key moments in a person's life, using scene, characterization, dialogue, and point of view to bring them to life on the page. As a class, we will explore a variety of memoirs of famous people, and not so famous. Then, we will recognize the key events in our own lives. Highlight and explore them. We will write about these experiences and share them, hoping to bring the reader into our world.

Communication

Elective for students in grades 9-12

Prerequisites: None

Required Supplies: Notebook, writing materials, reading book

Offered: 2021-22 Spring Every Third Year

Duration: Traditional semester

High School Credit: 0.5 cr. language arts

College Credit: None

Course Description: Often, a key to success is directly related to one's ability to communicate. This class introduces the study of communication - both verbal and nonverbal. It covers a variety of communication patterns, including intrapersonal, interpersonal, cross-cultural, group, and the development of public speaking skills.

Reading/Writing Strategies

Elective for students in grades 7-12

Prerequisites: Approval (based on NWEA, MCA, ACT)

Required Supplies: Notebook, writing utensil, reading book, and disk or flash drive

Optional Supplies: None

Offered: N/A For Now

Duration: Traditional semester

High School Credit: 0.5 cr.

College Credit: None

Course Description: Students will improve their reading comprehension abilities by reading and practicing the skills needed to be successful on the Minnesota State Tests and ACT. Students will develop their vocabulary, critical thinking, and test-taking skills.

Reading Interventions

Required for students in grades 7-8 grade

Prerequisites: Approval (based on MCA)

Required Supplies: Writing utensil and reading book

Optional Supplies: None

Offered: Spring 2021

Duration: Traditional semester

High School Credit: 0 cr.

College Credit: None

Course Description:

This course is designed to address the ELA standards and learning expectations of the MN Department of Education. Emphasis is placed on critical reading and writing skills needed to meet grade level expectations. Students are placed in this class based on their performance on the MCA Reading test. The course uses LLI, a Leveled Literacy reading intervention curriculum, which has a workbook for students to read, discuss, and write about different texts.

College Writing: Research and Composition

Elective for students in grades 11-12

Prerequisite: Qualifying AccuPlacer Exam Scores or equivalent to merit college level work

Required Supplies: Notebook, writing utensil, reading book, and disk or flash drive

Optional Supplies: Three-ring binder

Offered: Spring 2019-2020 Every Third Year

Duration: Traditional semester

High School Credit: 0.5 cr. language arts

College Credit: 4 cr. accepted at MNSCU colleges and universities

Course Description: This is a course in Composition and Research. This is a freshman level college course, *required* to take other college English courses. We study organization, grammar, and sentence structures in our writing, and we study proper research techniques. We also prepare for college and for work life in our research and the writing of a large paper.

Creative Writing

Elective for students in grades 9-12

Prerequisites: None

Required Supplies: Notebook, writing utensil, reading book, and disk or flash drive

Optional Supplies: None

Offered: 2020-21 Spring Every 3rd Year

Duration: Traditional semester

High School Credit: 0.5 cr.

College Credit: None

Course Description: Students will be introduced to varied creative writing such as

poetry, short story, journaling, and will create a portfolio of their writing. Writing will include a focus on figurative language, descriptions, varied formats, how to create a portfolio, and other activities designed to bring out the creative writer in everyone. The first quarter will be focused on writing poetry and second quarter's focus will be on prose writing.

Film as Art

Elective for students in grades 11-12

Prerequisite: None

Required Supplies: Notebook, writing utensil, reading book, and disk or flash drive

Optional Supplies: Three-ring binder

Offered: N/A For Now

Duration: Traditional semester

High School Credit: 0.5 cr. language arts or media arts

College Credit: 3 cr. accepted at MNSCU colleges and universities

Course Description: Confused about archetypes? Hero's Journey? It's easier to learn about them in *The Matrix* or in *Star Wars*. Puzzled with feminist critique or Marxist interpretation? This, too, is easier to understand in *Shrek* or in *Pretty Woman*. Learn about literary devices and ways to analyze art by viewing movies. We also discuss the themes of movies, and we will write as well.

Media Literacy

Elective for students in grades 8

Prerequisites: None

Required Supplies: charged iPad, 3-ring binder, composition notebook, writing materials, and earbuds

Offered: 2018-19

Duration: Traditional semester

High School Credit: None

College Credit: None

Course Description: In this course, students will learn to think critically about multimedia programs, advertising, digital citizenship, and informational literacy. Students will learn how to effectively use a library and databases efficiently, develop skills necessary for finding information, and develop information literacy reading skills. Students will develop online safety skills, learn to identify reliable websites, and learn website evaluation skills. Media literacy empowers people to be both critical thinkers and creative producers of an increasingly wide range of messages including images, language, and sound. How does advertising work and how are we being targeted as potential consumers?

Library Study Skills

Elective for students in grades 7

Prerequisites: None

Required Supplies: Required Supplies, School issued electronic device (charged), Good quality 3-ring binder, 2½ to 3 inches, Six or more dividers with tabs, Zipper pouch to store supplies, 2 or more pens of different colors, 2 or more pencils, Highlighter,

Notebook paper, Earbuds

Offered: 2018-19

Duration: Traditional semester

High School Credit: None

College Credit: None

Course Description: The goal of this class is to create a learning environment that helps you become a more efficient academic learner and producer. The purpose of this class is to provide you with an opportunity to improve academic success through time management, organization, and the building of academic self-esteem. Students will develop both skills and knowledge to begin preparing for high school success and eligibility to post-secondary educational options of their choosing. Students will also learn how to access and use digital and print resources responsibly.

PLEASE NOTE: You DO earn credits in Study Skills because you DO work in academic areas. You do not earn credits for Study Hall because you do not have assignments and work to complete. This is NOT a Study Hall Class. Students will also learn informational literacy skills.

Mythology

Elective for students in grades 11-12

Prerequisite: None

Required Supplies: Notebook, writing utensil, reading book, and disk or flash drive

Optional Supplies: Three-ring binder

Offered: N/A For Now

Duration: Traditional semester

High School Credit: 0.5 cr. language arts

College Credit: 3 cr. accepted at MNSCU colleges and universities

Course Description: Zeus, Thor, Marduk, Vishnu, and a god of sweet potatoes. People are inventive, and they are amazing. Watch movies and read their stories. You will see how differently they viewed their own world, see what their heroes were like, and even see how much we all have in common. Surprisingly, much of the past mythology of India, Greece, Egypt, and China, of the Vikings and Native Americans remains in our own world, today, in big and small ways.

Journalism/Yearbook

Elective for students in grades 10-12

Prerequisites: None

Required Supplies: Notebook, writing utensil, and disk or flash drive

Optional Supplies: None

Offered: 2019 -2020 Every Year

Duration: Traditional semester

High School Credit: 0.5 cr. technology credit

College Credit: None

Course Description: Students will learn the art of writing articles, taking pictures, meeting deadlines, and real world publication. This class will be

learning journalism techniques and will be applying them to real publications found in our school and community.

Math

Grade 7	Pre Algebra
Grade 8	Intermediate Algebra(Algebra I)
Grade 9	Geometry
Grade 10	Advanced Algebra(Algebra II)
Grade 11	Required Elective: Pre Calculus/Calculus Or Probability & Statistics/Technical Math
Grade 12	Pre Calculus Calculus Probability & Statistics Or Technical Math

Math 7—Pre Algebra

Required for students in grade 7

Prerequisite: None

Required Supplies: Math Notebook, pencil, charged iPad and binder or folder

Optional Supplies: Calculator

Offered: Every year

Duration: Traditional year

High School Credit: None

College Credit: None

Course Description: The focus is on proportional representations, mathematical

equivalency, integer values, and the geometry of circles. The Students will explore and solidify the concept of proportional reasoning as it applies to real world situations, graphic representations, equations and similar figures. The meaning of equality will be explored as students solve linear equations and find equivalent expressions. This course will help build a solid foundation for the algebraic concepts students will be learning in their upcoming courses while enhancing the skills students learned in previous years.

	Essential Benchmarks
7.1.1.3	Locate positive and negative rational numbers on a number line, understand the concept of opposites, and plot pairs of positive and negative rational numbers on a coordinate grid.
7.1.2.4	Solve problems in various contexts involving calculations with positive and negative rational numbers and positive integer exponents, including computing simple and compound interest.
7.1.2.5	Use proportional reasoning to solve problems involving ratios in various contexts.
7.2.2.1	Represent proportional relationships with tables, verbal descriptions, symbols, equations and graphs; translate from one representation to another. Determine the unit rate (constant of proportionality or slope) given any of these representations.
7.2.3.2	Evaluate algebraic expressions containing rational numbers and whole number exponents at specified values of their variables.
7.2.4.1	Represent relationships in various contexts with equations involving variables and positive and negative rational numbers. Use the properties of equality to solve for the value of a variable. Interpret the solution in the original context.
7.3.1.1	Demonstrate an understanding of the proportional relationship between the diameter and circumference of a circle and that the unit rate (constant of proportionality) is π . Calculate the circumference and area of circles and sectors of circles to solve problems in various contexts.
7.3.1.2	Calculate the volume and surface area of cylinders and justify the formulas used.
7.2.3.1	Use properties of algebra to generate equivalent numerical and algebraic expressions containing rational numbers, grouping symbols and whole number exponents. Properties of algebra include associative, commutative and distributive laws.
	Supporting Benchmarks
7.1.1.1	Know that every rational number can be written as the ratio of two integers or as a terminating or repeating decimal. Recognize that π is not rational, but that it can be approximated by rational numbers such as $\frac{22}{7}$ and 3.14.
7.1.1.2	Understand that division of two integers will always result in a rational number. Use this information to interpret the decimal result of a division problem when using a calculator.
7.1.1.4	Recognize and generate equivalent representations of positive and negative rational numbers, including equivalent fractions.
7.1.1.5	Recognize and generate equivalent representations of positive and negative rational numbers, including equivalent fractions.
7.1.2.1	Add, subtract, multiply and divide positive and negative rational numbers that are integers, fractions and terminating decimals; use efficient and generalizable procedures, including standard algorithms; raise positive rational numbers to whole-number exponents.

7.1.2.2	Use real-world contexts and the inverse relationship between addition and subtraction to explain why the procedures of arithmetic with negative rational numbers make sense.
7.1.2.3	Understand that calculators and other computing technologies often truncate or round numbers.
7.1.2.6	Demonstrate an understanding of the relationship between the absolute value of a rational number and distance on a number line. Use the symbol for absolute value.
7.2.1.1	Understand that a relationship between two variables, x and y , is proportional if it can be expressed in the form $y/x = k$ or $y = kx$. Distinguish proportional relationships from other relationships, including inversely proportional relationships ($xy = k$ or $y = k/x$).
7.2.1.2	Understand that the graph of a proportional relationship is a line through the origin whose slope is the unit rate (constant of proportionality). Know how to use graphing technology to examine what happens to a line when the unit rate is changed.
7.2.2.2	Solve multi-step problems involving proportional relationships in numerous contexts.
7.2.2.3	Use knowledge of proportions to assess the reasonableness of solutions.
7.2.2.4	Represent real-world or mathematical situations using equations and inequalities involving variables and positive and negative rational numbers.
7.2.3.3	Apply understanding of order of operations and grouping symbols when using calculators and other technologies.
7.2.4.2	Solve equations resulting from proportional relationships in various contexts.
7.3.2.1	Describe the properties of similarity, compare geometric figures for similarity, and determine scale factors.
7.3.2.2	Apply scale factors, length ratios and area ratios to determine side lengths and areas of similar geometric figures.
7.3.2.3	Use proportions and ratios to solve problems involving scale drawings and conversions of measurement units.
7.3.2.4	Graph and describe translations and reflections of figures on a coordinate grid and determine the coordinates of the vertices of the figure after the transformation.
7.4.1.1	Design simple experiments and collect data. Determine mean, median and range for quantitative data and from data represented in a display. Use these quantities to draw conclusions about the data, compare different data sets, and make predictions.
7.4.1.2	Describe the impact that inserting or deleting a data point has on the mean and the median of a data set. Know how to create data displays using a spreadsheet to examine this impact.
7.4.2.1	Use reasoning with proportions to display and interpret data in circle graphs (pie charts) and histograms. Choose the appropriate data display and know how to create the display using a spreadsheet or other graphing technology.
7.4.3.1.	Use random numbers generated by a calculator or a spreadsheet or taken from a table to simulate situations involving randomness, make a histogram to display the results, and compare the results to known probabilities.
7.4.3.2	Calculate probability as a fraction of sample space or as a fraction of area. Express probabilities as percentages, decimals and fractions.
7.4.3.3	Use proportional reasoning to draw conclusions about and predict relative frequencies of outcomes based on probabilities.

(Course Description taken from Bloomington Public Schools)

Math 8—Intermediate Algebra (Algebra I)**Required for students in grade 8****Prerequisite:** Pre Algebra**Required Supplies:** Math Notebook, pencil, charged iPad and binder or folder**Optional Supplies:** Calculator**Offered:** Every year**Duration:** Traditional year**High School Credit:** None**College Credit:** None

Course Description: Students will explore non-proportional linear relationships and how they can be used to model real world situations and solve problems. This exploration will include using tables, graphs, equations, and functions. The meaning of equality will be emphasized and explored throughout the course as students study how to solve equations, find solutions to linear problems, and find the intersection of two lines in a system of equations. Students will study slope, y-intercepts, the Pythagorean Theorem, the properties of equality, and will receive an introduction to non-linear relationships. Emphasis will be placed on students developing the skills to explain their reasoning in algebraic terms.

	Essential Benchmarks
8.2.1.2	Use linear functions to represent relationships in which changing the input variable by some amount leads to a change in the output variable that is a constant times that amount.
8.2.1.3	Understand that a function is linear if it can be expressed in the form $f(x)=mx+b$ or if its graph is a straight line.
8.2.2.1	Represent linear functions with tables, verbal descriptions, symbols, equations and graphs; translate from one representation to another.
8.2.2.2	Identify graphical properties of linear functions including slopes and intercepts. Know that the slope equals the rate of change, and that the y-intercept is zero when the function represents a proportional relationship
8.2.2.3	Identify how coefficient changes in the equation $f(x) = mx + b$ affect the graphs of linear functions. Know how to use graphing technology to examine these effects.
8.2.4.2	Solve multi-step equations in one variable. Solve for one variable in a multivariable equation in terms of the other variables. Justify the steps by identifying the properties of equalities used.
8.2.4.7	Represent relationships in various contexts using systems of linear equations. Solve systems of linear equations in two variables symbolically, graphically and numerically.
8.3.1.1	Use the Pythagorean Theorem to solve problems involving right triangles.
8.2.3.2	Justify steps in generating equivalent expressions by identifying the properties used, including the properties of algebra. Properties include the associative, commutative and distributive laws, and the order of operations, including grouping symbols.

8.4.1.2	Use a line of best fit to make statements about approximate rate of change and to make predictions about values not in the original data set.
	Supporting Benchmarks
8.1.1.1	Classify real numbers as rational or irrational. Know that when a square root of a positive integer is not an integer, then it is irrational. Know that the sum of a rational number and an irrational number is irrational, and the product of a non-zero rational number and an irrational number is irrational.
8.1.1.2	Compare real numbers; locate real numbers on a number line. Identify the square root of a positive integer as an integer, or if it is not an integer, locate it as a real number between two consecutive positive integers.
8.1.1.3	Determine rational approximations for solutions to problems involving real numbers. For example: A calculator can be used to determine that 7 is approximately 2.65.
8.1.1.4	Know and apply the properties of positive and negative integer exponents to generate equivalent numerical expressions.
8.1.1.5	Express approximations of very large and very small numbers using scientific notation; understand how calculators display numbers in scientific notation. Multiply and divide numbers expressed in scientific notation, express the answer in scientific notation, using the correct number of significant digits when physical measurements are involved.
8.2.1.1	Understand that a function is a relationship between an independent variable and a dependent variable in which the value of the independent variable determines the value of the dependent variable. Use functional notation, such as $f(x)$, to represent such relationships.
8.2.1.4	Understand that an arithmetic sequence is a linear function that can be expressed in the form $f(x)=mx+b$, where $x = 0, 1, 2, 3, \dots$
8.2.1.5	Understand that a geometric sequence is a nonlinear function that can be expressed in the form $f(x)=ab^x$ where $x = 0, 1, 2, 3, \dots$
8.2.2.4	Represent arithmetic sequences using equations, tables, graphs and verbal descriptions, and use them to solve problems.
8.2.2.5	Represent geometric sequences using equations, tables, graphs and verbal descriptions, and use them to solve problems.
8.2.3.1	Evaluate algebraic expressions, including expressions containing radicals and absolute values, at specified values of their variables.
8.2.4.1	Use linear equations to represent situations involving a constant rate of change, including proportional and nonproportional relationships.
8.2.4.3	Express linear equations in slope-intercept, point-slope and standard forms, and convert between these forms. Given sufficient information, find an equation of a line.
8.2.4.4	Use linear inequalities to represent relationships in various contexts.
8.2.4.5	Solve linear inequalities using properties of inequalities. Graph the solutions on a number line.
8.2.4.6	Represent relationships in various contexts with equations and inequalities involving the absolute value of a linear expression. Solve such equations and inequalities and graph the solutions on a number line.
8.2.4.8	Understand that a system of linear equations may have no solution, one solution, or an infinite number of solutions. Relate the number of solutions to pairs of lines that are

	intersecting, parallel or identical. Check whether a pair of numbers satisfies a system of two linear equations in two unknowns by substituting the numbers into both equations.
8.2.4.9	Use the relationship between square roots and squares of a number to solve problems.
8.3.1.2	Determine the distance between two points on a horizontal or vertical line in a coordinate system. Use the Pythagorean Theorem to find the distance between any two points in a coordinate system.
8.3.1.3	Informally justify the Pythagorean Theorem by using measurements, diagrams and computer software.
8.3.2.1	Understand and apply the relationships between the slopes of parallel lines and between the slopes of perpendicular lines. Dynamic graphing software may be used to examine these relationships.
8.3.2.2	Analyze polygons on a coordinate system by determining the slopes of their sides.
8.2.2.3	Given a line on a coordinate system and the coordinates of a point not on the line, find lines through that point that are parallel and perpendicular to the given line, symbolically and graphically.
8.4.1.1	Collect, display and interpret data using scatterplots. Use the shape of the scatterplot to informally estimate a line of best fit and determine an equation for the line. Use appropriate titles, labels and units. Know how to use graphing technology to display scatter plots and corresponding lines of best fit.
8.4.1.3	Assess the reasonableness of predictions using scatterplots by interpreting them in the original context.

(Course Description taken from Bloomington Public Schools)

Living in the Math World (8th Grade)

Elective for students in grade 8

Prerequisite: Pre-Algebra(7th Grade Math)

Required Supplies: None

Optional Supplies: None

Offered: Every year

Duration: Traditional Semester

High School Credit: None

Course Description: Students in the 8th grade will take the Minnesota Common Assessments (MCAs) in the spring. This class is designed to help students prepare for that upcoming MCA test all while relating it to the world around them. This course will take a look at the key standards in the 8th grade that will be covered in MCAs and dive deeper in their understanding of those standards using real-world examples to illustrate these ideas.

Intermediate Algebra(Algebra I)

Required for students in grade 8

Prerequisite: Pre-Algebra (7th grade)

Required Supplies: A **Separate** Spiral Notebook(college ruled preferred), Durable Folder, Pencils

Optional Supplies: Scientific Calculator(recommended for any work done at home),

Zippered Pencil Case for 3 Ring Binder, Highlighters, Colored Pencils or Markers

Offered: Every year

Duration: Traditional Semester

High School Credit: .5 cr. math

College Credit: None

Course Description The emphasis of this course is on solving linear equations, factoring, graphing, and solving systems of linear equations. Students will begin the process of solving word problems.

Geometry

Required for students in grade 9

Prerequisite: Intermediate Algebra (Algebra 1)

Required Supplies: A **Separate** Spiral Notebook(college ruled preferred), Durable Folder, Pencils

Optional Supplies: Scientific Calculator(recommended for any work done at home), Zippered Pencil Case for 3 Ring Binder, Highlighters, Colored Pencils or Markers

Offered: Every year

Duration: Traditional year

High School Credit: 1 cr. math

College Credit: None

Course Description: Students in this course will study basic properties, definitions, postulates, theorems and proofs related to two- and three-dimensional figures. The first semester deals more with definitions and two column proofs with segments, triangles and angles. The second semester deals with area, perimeter, surface area, volume of shapes as well as introduction to trigonometry, angles and circles.

Advanced Algebra (Algebra II)

Required for students in grade 10

Prerequisite: Geometry

Required Supplies: A **Separate** Spiral Notebook(college ruled preferred), Durable Folder, Pencils

Optional Supplies: Scientific Calculator(recommended for any work done at home), Zippered Pencil Case for 3 Ring Binder, Highlighters, Colored Pencils or Markers

Offered: Every year

Duration: Traditional year

High School Credit: 1 cr. math

College Credit: None

Course Description: Students in this course will complete an in depth study of linear and quadratic equations. The course will begin with a foundation for algebra into polynomial functions and linear systems. The second semester deals more with exponential and logarithmic functions moving into probability, sequences and trigonometry.

Pre Calculus

Elective for students in grades 11-12

Prerequisites: Advanced Algebra(Algebra 2) or concurrently enrolled in Advanced Algebra

Required Supplies: A **Separate** Spiral Notebook(college ruled preferred), Durable Folder, Pencils

Optional Supplies: Scientific Calculator(recommended for any work done at home), Zippered Pencil Case for 3 Ring Binder, Highlighters, Colored Pencils or Markers

Offered: Every year

Duration: 1 semester

High School Credit: .5 cr. math

College Credit: None

Course Description: Students will look at much of the same topics as Algebra 2 but more in depth. They will study quadratic graphing and functions, solve quadratic equations, study trigonometry graphing and functions. They will be introduced to solving matrices and the concept of limits.

Calculus

Elective for students in grades 11-12

Prerequisites: Advanced Algebra(Algebra 2) or

Required Supplies: A **Separate** Spiral Notebook(college ruled preferred), Durable Folder, Pencils

Optional Supplies: Scientific Calculator(recommended for any work done at home), Zippered Pencil Case for 3 Ring Binder, Highlighters, Colored Pencils or Markers

Offered: Every year

Duration: 1 semester

High School Credit: .5 cr. math

College Credit: None

Course Description: This course is designed to introduce students to the study of Calculus so that they can succeed in a traditional college level Calculus course. Some of the topics that will be covered include: functions, derivatives, differentiation, definite integrals, integration, indefinite integrals, using derivatives and definite integrals.

Financial Literacy

Elective for students in grades 10-12

Prerequisites: Intermediate Algebra(Algebra 1)

Required Supplies: A **Separate** Spiral Notebook(college ruled preferred), Durable Folder, Pencils

Optional Supplies: Scientific Calculator(recommended for any work done at home), Zippered Pencil Case for 3 Ring Binder, Highlighters, Colored Pencils or Markers

Offered: Every year

Duration: 1Semester

High School Credit: .5 cr. math

College Credit: None

Course Description: This course is a comprehensive study of personal financial literacy designed for the college-bound and career-oriented student. Students learn how to make

informed financial decisions related to budgeting, banking, credit, insurance, taxes, and career exploration. An integral component of the financial literacy curriculum is the application of decision-making skills that enables students to become more responsible consumers for lifetime success.

Probability & Statistics

Elective for students in grade 11-12

Prerequisite: Algebra II

Required Supplies: None

Optional Supplies: None

Offered: Every year

Duration: Traditional Semester

High School Credit: .5 math credit

Course Description: Probability and Statistics course is designed to introduce the methods used in the field of applied statistics. It relies extensively on real-world situations, critical analysis, and interpretation of graphs and data. Students will be expected to analyze and write detailed descriptions and interpretations about graphs, data, and procedures. The major focus of this course is to provide students with experience in using the computer to solve problems which can be set up as mathematical models.

Technical Math

Elective for students in grade 11-12

Prerequisite: Algebra II

Required Supplies: None

Optional Supplies: None

Offered: Every year

Duration: Traditional Semester

High School Credit: .5 math credit

Course Description: This Applied Mathematics course will cover topics to prepare students for successful completion of career technical programs intended for employment. Four Itasca Community College credits in a technical program will be earned provided that a C or better is received for the course. This credit will be transferable to other technical programs in the Northeast Higher Education District. Topics include Basic Number Operations and Practical Trade Applications including Measurement, Ratios and Proportions, Algebra and Geometry, Area and Volume, Right Angle Trigonometry, Statistics and Variation.

Intro to Math Science

Elective for students in grades 11-12

Prerequisites: Algebra II

Required Supplies: None

Optional Supplies: None

Offered: Every year

Duration: Traditional year

High School Credit: 1 cr. math

College Credit: 3 credits Bemidji State University Only

Course Description: This course integrates the study of algebra, statistics and computing. Topics include functions, graphical and tabular analysis, rate of change, syntax and semantics, the process of computing, data manipulation, sampling, statistical measures, basic probability, correlation. Examples are drawn from a wide range of disciplines and content will be taught within the framework of discipline-specific examples. Students will learn to use the software package Microsoft Excel.

Independent Study: Math Credit Recovery

Elective for students in grades 11-12

Prerequisites: Geometry or teacher approval

Required Supplies: None

Optional Supplies: None

Offered: Spring Every year

Duration: Traditional semester

High School Credit: 0.5 cr. math

College Credit: None

Course Description: Credit recovery for Intermediate Algebra, Geometry, or Algebra II.

Music

Junior High Band

Elective for students in grades 7 - 9

Prerequisites: Elementary band or instructor approval/student audition

Required Supplies: Instrument or drumsticks; pencil; concert dress (solid white shirt or dress, black pants or skirt (appropriate length), black socks, and black shoes); all materials needed to play the student's particular instrument (reeds, neck straps, etc.); for large and expensive instruments (such as tubas, baritones, tenor and baritone saxophones, and percussion) the school may supply instruments for those students at a fee of \$50 per year. Valve oil must be purchased by students; there will be no community valve oil available. These instruments must be properly checked out to each student before the student may participate in the ensemble. *Repairs due to **student fault** will be the responsibility of the student to whom the instrument is assigned.*

Optional Supplies: Brass mutes

Offered: Every year

Duration: Traditional year (This class is a year long commitment)

High School Credit: 9th grade - 1 cr. Performing Art per year

College Credit: None

Course Description: Students will perform 4 concerts each school year in addition to a

few local parades; scheduled pep bands for football, volleyball, and basketball games; **and** graduation. All performances are required. A variety of music and musical styles will be explored and played as well as the elements needed to perform the music well. Each musician will experience musical growth of knowledge and ability as well as learn how to find, understand, and convey the message and expression within the music. Students are graded on rehearsal and performance participation, musical knowledge and skills, monthly assignments, and group and individual musical evaluation.

Senior High Band

Elective for students in grades 10-12

Prerequisites: Junior high band or instructor approval/student audition

Required Supplies: Instrument or drumsticks; pencil; concert dress (solid black shirt or dress, black pants or skirt (appropriate length), black socks, and black shoes); all materials needed to play the student's particular instrument (reeds, neck straps, etc.); for large and expensive instruments (such as tubas, baritones, tenor and baritone saxophones, and percussion) the school may supply instruments for those students at a fee of \$50 per year. Valve oil must be purchased; there will be no community valve oil available. These instruments must be properly checked out to each student before the student may participate in the ensemble. *Repairs due to **student fault** will be the responsibility of the student to whom the instrument is assigned.*

Optional Supplies: Brass mutes

Offered: Every year

Duration: Traditional year (This class is a year long commitment.)

High School Credit: 1 cr. Performing Art per year

College Credit: None

Course Description: Students will perform 5 concerts each school year in addition to a few local parades; scheduled pep bands for football, volleyball, and basketball games; **and** graduation. All performances are required. A variety of music and musical styles will be explored and played as well as the elements needed to perform the music well. Each musician will experience musical growth of knowledge and ability as well as learn how to find, understand, and convey the message and expression within the music. Each year, two pieces will be rehearsed to perform at the state music contest competition. Students are graded on rehearsal and performance participation, musical knowledge and skills, monthly assignments, and group and individual musical evaluation.

History of Rock pt. I

Electives for students in grades 9th - 12th

Prerequisites: None

Required Supplies: Pencil and paper or laptop

Offered: Every year, fall semester

Duration: 1 semester

High School Credit: .5 Fine Arts

College Credit: None

Course Description: The history of rock class is a survey class designed to give students an overview of the great musicians in rock history. The class will last one semester and will cover different decades and genres of rock music. The class will be in lecture format. Grading will be based on written tests, essays, music listening and identification, and a large project as the semester final. Grading curve will be on the school's standard. Daily materials required for this class include a notebook and a writing utensil or a laptop. Please be aware that in studying rock history there will be some more adult themed lecture material presented. History of Rock pt. I covers the beginning of American rock (approx. 1945) to Woodstock (1969). History of Rock pt. II will be a continuation of rock history.

History of Rock pt. II

Electives for students in grades 9th - 12th

Prerequisites: None

Required Supplies: Pencil and paper or laptop

Offered: Every year, spring semester

Duration: 1 semester

High School Credit: .5 Fine Arts

College Credit: None

Course Description: The history of rock class is a survey class designed to give students an overview of the great musicians in rock history. The class will last one semester and will cover different decades and genres of rock music. The class will be in lecture format. Grading will be based on written tests, essays, music listening and identification, and a large project as the semester final. Grading curve will be on the school's standard. Daily materials required for this class include a notebook and a writing utensil or a laptop. Please be aware that in studying rock history there will be some more adult themed lecture material presented. History of Rock pt. II covers Post-Woodstock (1969) to approximately 1995. History of Rock pt. II is a continuation of History of Rock pt. I which covers previous decades.

Music Appreciation (Theory, History)

Electives for students in grades 9th - 12th

Prerequisites: None

Required Supplies: Pencil, paper, chromebook/laptop

Offered: Every year, 1 semester per year

Duration: 1 semester

High School Credit: .5 Fine Arts

College Credit: None

Course Description: Music Appreciation is a general music survey course that studies multiple aspects of music. Students will learn from a broad range of subjects including but not limited to classical music history, music theory, form and analysis, jazz theory, and beginning classical composition with performance. Required performances will be percussion based only. Curriculum will include lectures, tests, essays, and projects. Grading curve will be based on school standards. Daily materials required are pencil/pen

and paper. Students are recommended to take this course prior to Contemporary Music Studies in order to give them a strong foundation of music and jazz theory as well as form and analysis.

Contemporary Music Studies

Electives for students in grades 9th - 12th

Prerequisites: None but recommend Music Appreciation

Required Supplies: Pencil, paper, chromebook/laptop

Offered: Every year, 1 semester per year

Duration: 1 semester

High School Credit: .5 Fine Arts

College Credit: None

Course Description: Contemporary Music Studies is a project-based course designed to offer students a chance to learn the basics of modern music composition and recording. Students will learn basic music theory as it applies to guitar, keys and drumset, compose original works, record and videotape their recordings, learn the basics of sound production equipment, do small group work on videos, and learn about the basics of recording studios. Grading curve will be based on school standards. Daily materials required are pencil, paper, and electronic device. Students will independently work on projects with due dates in this class both individually and in small groups.

Physical Education

Students must complete 1.0 HS credit of Physical Education and Health for graduation.

Wellness 7

Course description:

This course is designed to promote student learning with regard to skill development in a variety of sport and fitness movements, along with health. Four days a week will be spent in the gymnasium with one day in the health classroom.

Physical Education course outcomes:

1. Catches with a mature pattern from different trajectories using a variety of objects in small-sided game play. (S1M21.7)
2. Reduces open space by using locomotor movements in combination with movement concepts. (S2.M2.7)
3. Creates open space by staying spread on offense, and cutting and passing quickly. (S2.M3.7)
4. Reduces open space on defense by staying close to the opponent as he/she nears the goal. (S2.M4.7)

5. Transition from offense to defense or defense to offense by recovering quickly and communicating with teammates.
6. Participates in moderate to vigorous muscle and bone-strengthening physical activity at least 3 times a week. (S3.M6.7)
7. Describes the role of exercise and nutrition in weight management. (S3.M10.7)
8. Exhibits responsible social behaviors by cooperating with classmates, demonstrating inclusive behaviors, and supporting classmates. (S4.M1.7)
9. Identifies the positive mental and emotional aspects of participating in a variety of physical activities. (S5.M3.7)

Course Units:

- Badminton
- Archery
- Volleyball
- Floor Hockey
- Wiffle Ball
- Ultimate Frisbee
- Weight Lifting
- Speed Training

Health Units:

Decision making
 Personal health
 Mental and Emotional Health
 Conflict Resolution
 Nutrition

Required for students in grade 7**Prerequisites:** None**Required Supplies:** Athletic shoes, workout clothes, Health notebook & folder**Optional Supplies:** None**Offered:** Every year**Duration:** Traditional semester**High School Credit:** None**College Credit:** None**Wellness 8****Course description:**

This course is designed to promote student learning with regard to skill development in a sport and continued development in exercise and lifelong activity. Wellness 8 also includes two days in the health classroom furthering their understanding of personal and community health.

Physical Education course outcomes:

1. Throws with a mature pattern for distance or power appropriate to the activity during small-sided game play. (S1.M3.8)

2. Passes and receives with an implement in combination with locomotor patterns of running and change of direction, speed and/or level with competency in modified invasion games such as lacrosse or hockey. (S1.M3.8)
3. Executes consistently a legal underhand serve for distance and accuracy for net/wall games such as volleyball, badminton, or pickleball. (S1.M12.8)
4. Opens and Closes space during small-sided game play by combining locomotor movements with movement concepts. (S2.M1.8)
5. Identifies the 5 components of health-related fitness and explains the connections between fitness and overall physical and mental health. (S3.M1.8)
6. Describes the relationship between poor nutrition and health risk factors. (S3.M18.8)
7. Accepts responsibility for improving one's own levels of physical activity and fitness. (S4.M1.8)
8. Responds appropriately to participants ethical and unethical behavior during physical activity by using rules and guidelines for resolving conflicts. (S4.M4.8)
9. Develops a plan of action and makes appropriate decisions based on that plan when faced with an individual challenge. (S5.M3.8)

Course Units:**Health Units:**

- | | |
|--------------------|---------------------|
| ● Pickleball | Community health |
| ● Basketball | Tobacco and Alcohol |
| ● Trackball | Eating Disorders |
| ● Team Handball | Infectious Diseases |
| ● Softball | Nutrition |
| ● Olympic lifting | |
| ● Weight Lifting | |
| ● Ultimate Frisbee | |

Required for students in grade 8**Prerequisites:** None**Required Supplies:** Athletic shoes, workout clothes, Health notebook & folder**Optional Supplies:** None**Offered:** Every year**Duration:** Traditional semester**High School Credit:** None**College Credit:** None**Health 9****Required for students in grade 9****Prerequisites:** None**Required Supplies:** Health notebook & folder

Optional Supplies: None

Offered: Every year

Duration: Traditional semester

High School Credit: 0.5 cr. Health per semester

College Credit: None

Health Course Description: Students will expand upon previous knowledge and learn more about physical health and the way the body works. Individual body systems will be studied as well as basic anatomy and physiology. Students will also be able to apply their knowledge of the muscular system to designing a workout regimen designed to meet their needs/goals.

Physical Education 9

Required for students in grade 9

Prerequisites: None

Required Supplies: Athletic shoes, workout clothes

Optional Supplies: None

Offered: Every year

Duration: Traditional semester

High School Credit: 0.5 cr. physical education per semester

College Credit: None

Health Course Description: Students will expand upon previous knowledge and learn more about physical health and the way the body works. Individual body systems will be studied as well as basic anatomy and physiology. Students will also be able to apply their knowledge of the muscular system to designing a workout regimen designed to meet their needs/goals.

Camp Games

Elective for students in grades 12

Prerequisites: None

Required Supplies: Athletic shoes and workout clothes

Optional Supplies: None

Offered: Spring

Duration: Traditional Semester

High School Credit: 0.5 cr. physical education

College Credit: None

This course is designed to promote student learning with regard to camp games and team building activities. Students will learn strategies and tactics for a variety of activities while developing cooperative and team work skills. Specific activities could include: Air Raid, Ultimate Frisbee, 10-pin Knockdown, Mighty Mighty, British Bulldog, Dead Ant, Capture the Flag, Medic, Hostage and many others.

Life Sports and Fitness

Elective for students in grades 7-9

Prerequisites: None

Required Supplies: Athletic shoes and workout clothes

Optional Supplies: None

Offered: Fall

Duration: Traditional semester

High School Credit: 0.5 cr. physical education

College Credit: None

Course Description: This course has two main objectives: to provide students an opportunity to take a physical education class that will enable them to learn skills and techniques of several lifetime activities and to increase their fitness level by participating in strength and conditioning programs. Some specific activities to be possibly covered include: Pickleball, badminton, walking/running, yoga, weight training and conditioning, and several other individual and team sports.

Team Sports

Elective for students in grades 11-12

Prerequisites: None

Required Supplies: Athletic shoes and workout clothes

Optional Supplies: None

Offered: Spring

Duration: Traditional Semester

High School Credit: 0.5 cr. physical education

College Credit: None

This course is designed to promote student learning with regard to team sports. Students will learn strategies and tactics for a variety of team sports while developing cooperative and team work skills. Sports covered during the course include: Football, Soccer, Volleyball, Team Pickleball, Basketball, Floor Hockey, Wiffle Ball, Ultimate Frisbee and many others.

Weight Training

Elective for students in grades 10-12

Prerequisites: None

Required Supplies: Athletic shoes and workout clothes

Optional Supplies: None

Offered: Spring

Duration: Traditional semester

High School Credit: 0.5 cr. physical education

College Credit: None

Course Description: In this class students will learn how to set up and implement weight training programs. They will learn the difference between training for increased muscular strength and training to tone or for endurance. Students will demonstrate the ability to

correctly and safely use both free weights and machines. After completion of this class, students should feel confident enough to join fitness clubs for the years to come after their high school careers.

Science

Students must complete 3.0 HS credits of Science (Physical Science, Biology and Chemistry) for graduation.

Science 7—Life Science

Required for students in grade 7

Prerequisites: None

Required Supplies: Binder with dividers, folders, notebook, pencil, pens, a charged chromebook, composition notebook (journal entries)

Optional Supplies: Colored pencils, markers

Offered: Every year

Duration: Traditional year

High School Credit: None

College Credit: None

Course Description: In this two semester course we will work together to learn about life and living things in the world around us. We will discuss the environment, cells, classification, animals, plants, genetics, the human body and what science is and isn't. We will be using a series of five small books to guide us through each of the topics mentioned above. Students will be doing a variety of lab activities including experiments and discussions to aid in their discovery of life. Grades are based on attendance, classwork, homework, participation, projects, quizzes,, and tests.

Science 8—Physical Science

Required for students in grade 8

Prerequisites: Science 7

Required Supplies: Binder with dividers, folders, notebook, pencils, pens, a charged chromebook, and a calculator, composition notebook (journal entries)

Optional Supplies: Colored pencils/markers

Offered: Every Year

Duration: Traditional year

High School Credit: None

College Credit: None

Course Description: Physical science consists of four main units over two

semesters. They are chemistry, physics, electricity and magnetism, and light and sound. First quarter begins with the study of matter and its interactions. Students learn about elements and compounds, become familiar with the Periodic Table of Elements, investigate chemical reactions, acids and bases, and the various phases of matter. Unit two starts in 2nd quarter when students transition into physics, the study of forces and motion. They will learn how to calculate speed, acceleration, and velocity and identify forces affecting motion including fluid forces. This unit will last into 3rd quarter. About halfway through third quarter they will start electricity and magnetism. Students will learn how magnetism was discovered, how magnetism and electricity are related, how motors and generators work, as well as be introduced to electronics. The year ends with sound, color, and light and the dynamics of waves. Throughout the year, students will complete several projects and labs that reinforce the material learned in class.

Science 9—Physical Science

Required for students in grade 8 for MCA Science Test

Required for graduation

Prerequisites: None

Required Supplies: Binder with dividers, folders, notebook, pencil, pens, a charged chromebook.

Optional Supplies: Colored pencils, markers, calculator, note cards

Offered: Every year

Duration: Traditional year

High School Credit: 1 year of science

College Credit: None

Course Description: Earth Science is an overview of Earth's structure, geography, landforms, geology (including rocks, minerals, plate tectonics, earthquakes, volcanoes, weathering, erosion, and deposition) as well as its formation and history, evolution and geologic time including the study of fossils. We also cover energy and its transfer and conversion, the atmosphere (layers, dynamics), weather, climate, climate change, the water cycle, the use of renewable and nonrenewable resources on the environment, the formation of our solar system, the planets, stars and star life cycles, galaxies, the Universe, cosmology, and space exploration past, present, and future.

Science 10 - Biology

Prerequisites: Science 9

Required for students in grade 10 for MCA Science Test

Required for graduation

Required Supplies: Single spiral bound notebook, pencils, pens, folder, notecards, a charged chromebook

Optional Supplies: binder with dividers, daily planner, colored pencils/markers

Offered: Every year

Duration: Traditional year

High School Credit: 1 cr. science

College Credit: None

Course Description: In this two semester course students study life and its processes. Students will utilize written as well as online materials. Biology emphasizes cell structure and function, cell transport, biochemical reactions such as photosynthesis, respiration, and fermentation, mitosis and cell division, genetics and gene expression through protein synthesis, mutation, evolution, biodiversity, ecology and human impact on the environment, biological change over time, human body systems, and the classification of organisms. Grading will emphasize attendance, daily classwork, participation, homework, written tests, quizzes, projects, and labs. Students are expected to participate in all learning and activities in order to receive positive grades. In May each year students take the Science MCA test which is based on both this subject as well as what students learn in 9th grade science.

Science 11 - Chemistry

Required for students in grade 11-12

Prerequisites: Science 8 and 9

Required Supplies: Binder with dividers, notebook, pencil, pens, folder, calculator, a charged chromebook

Optional Supplies: daily planner, colored pencils/markers

Offered: Every year

Duration: Traditional year

High School Credit: 1 cr. science

College Credit: None

Course Description: Chemistry is the study of matter and its interactions. Students in chemistry will study the following topics: the history of chemistry, matter, energy, physical and chemical properties and changes, the structure of atoms and molecules, periodic law and trends of the Periodic Table of Elements, naming ionic compounds, naming molecular compounds, chemical equations and reactions, stoichiometry and analytical chemistry, characteristics of gases, solutions, acids and bases, carrying out chemical reactions, the use of chemistry in the community, and organic chemistry. Grading will emphasize daily classwork, homework, written tests, quizzes, projects, and labs. Students are expected to participate in all learning and activities. Grades depend on homework, classwork, labs and projects, tests/quizzes, and attendance.

Environmental Science (Non-AP)

Optional elective for students in grade 10-12

Prerequisites: Science 9

Required Supplies: Binder with dividers, notebook, textbook, workbook, a charged chromebook, colored pencils/markers, pencil, pens, folders, calculator

Offered: 1st semester every other year

Duration: Traditional semester

High School Credit: ½ cr. science

College Credit: none.

Course description:

Environmental Science covers a wide variety of topics centering on issues facing the environment today including but not limited to: ecosystem structure and dynamics, cycling of matter and energy, population dynamics in ecosystems, reasons for declining biodiversity, human overpopulation and overexploitation of the environment, use of resources, water, soil, production of food, GMO's, and the use of chemical fertilizers and pesticides, as well as ecological pest control, fossil fuels, nuclear energy, renewable energy, ocean health and ocean acidification, atmospheric pollution and solutions, global anthropogenic climate change, ozone layer dynamics, forestry, fisheries, biogeochemical cycles, the disposal of refuse and hazardous wastes, sustainable solutions. This class goes along with the Natural Resource Management Career Pathway and is often paired with the class Natural Resource Management, offered second semester.

Natural Resource Management Careers

Optional elective for students in grade 10-12

Prerequisites: Science 9

Required Supplies: Binder with dividers, notebook, textbook, workbook, a charged chromebook, colored pencils/markers, pencil, pens, folders, calculator

Offered: Second Semester every other year

Duration: Traditional semester

High School Credit: ½ cr. science

College Credit: none.

Course description:

Natural Resource Management covers a wide variety of topics centering on issues facing our use of Earth's resources locally, statewide, nationally, and globally.

Some of the career choices available within natural resource management include:

- Forester.
- Environmental or Science Educator.
- Field Researchers.
- Forest/Wildlife Ecologist.
- Aquatic Ecologist
- Land Use Planner.
- Naturalist.
- Wetlands Restoration Specialist.
- Geospatial Engineering
- Wildland Firefighting
- Geographic Information Systems Specialist

Advanced Placement Environmental Science

Optional for students in grade 11-12

Prerequisites: Science 9, biology, and chemistry

Required Supplies: Binder with dividers, notebook, textbook, workbook, a charged chromebook, colored pencils/markers, pencil, pens, folders, calculator

Offered: Every other year

Duration: Traditional full year

High School Credit: 1 cr. science

College Credit: If students score a 3, 4, or 5 on the AP exam in May, they will earn a full year of college credit in a lab science.

Course description:

AP Environmental Science covers a wide variety of topics centering on issues facing the environment today including but not limited to: ecosystem structure and dynamics, cycling of matter and energy, reasons for declining biodiversity, human overpopulation and overexploitation of the environment, use of resources, water, soil, production of food, GMO's, and the use of pesticides, fossil fuels, nuclear energy, renewable energy, ocean health and acidification, atmospheric pollution and solutions, global anthropogenic climate change, ozone layer dynamics, forestry, fisheries, biogeochemical cycles, the disposal of refuse and hazardous wastes, sustainable solutions..

Introduction to Health Careers

Prerequisites: Science 7 and 8

Required Supplies: Binder with dividers, notebook, pencil, pens, folder, calculator

Optional Supplies: daily planner, colored pencils/markers

Offered: First Semester to 9-12 grade students - via telepresence

Duration: Traditional semester, taught either in person or via telepresence

High School Credit: ½ cr. science

College Credit: None

Course Description: This class is for students interested in pursuing a career in healthcare. Some of the areas you will focus on are:

Medical Doctor	Medical Assistant	EMT
Physical or Occupational Therapist	Surgical Technologist	Paramedic
Nursing RN, LPN, NAR	Histologist	Veterinary Science
Dentist, Dental Hygienist,	Medical Lab Technologist	Mortuary Science
Dental Assistant	Biotechnologist	Psychologist
Athletic Trainer	Forensic Scientist	Social Worker
	Dietician	Hospital Security Officer

Anatomy and Physiology

Prerequisites: Science 9 (can be taken concurrently with Science 9)

Required Supplies: Binder with dividers, notebook, pencil, pens, folder, calculator

Optional Supplies: daily planner, colored pencils/markers

Offered: Every other year (next is 22-23)

Duration: 1 year

High School Credit: ½ cr. science

College Credit: None

Course Description: Anatomy and Physiology studies the human body and its functions. Students looking to enter a health career would receive a good jump start on anatomical prefixes and suffixes, body parts and systems, and diagnostic tests given by medical professionals. Students will encounter case studies, read articles, and watch videos of real life situations about the human body. Grades are based on attendance, daily work, and the amount of the work completed by the end of each quarter.

Forestry, Fisheries, Wetlands, and Wildlife

Optional elective for students in grade 10-12, required elective for 7-8

Prerequisites: Science 9

Required Supplies: Binder with dividers, notebook, textbook, workbook, a charged chromebook, colored pencils/markers, pencil, pens, folders, calculator

Offered: First Semester every other year (next is 21-22)

Duration: Traditional semester

High School Credit: ½ cr. science

College Credit: none.

Course description:

We will cover forestry and fisheries during first quarter and then wetlands and wildlife second quarter. Students will learn about forest ecology, sustainable forestry practices, measurement techniques, and identification. Fisheries will encompass both the standard fisheries in lakes, rivers, as well as marine ecosystems and the planning, regulation, and population dynamics with regard to total allowable catch and maximum sustainable yield, along with the role of hatcheries in keeping fish populations at healthy levels. We will also learn about the field of aquaculture and even hatch and raise our own fish here at school. Second quarter we will learn about the important role wetlands play in ecosystems along with the services they provide for all species. We will discuss the need for wetlands and their biodiversity, ways in which we have damaged/destroyed wetlands in the US and around the world, as well as ways in which we are now protecting and preserving wetlands. We will end the year learning about local (northern MN) wildlife populations, their habitats, whether they are endangered, and what is being done to help them. Students will have the opportunity to shadow/visit/volunteer to work in the field.

(Not currently offered)

Physics

Elective for students in grades 11-12

Prerequisites: Physical science, Algebra II

Required Supplies: Calculator, notebook (3 subject preferred)

Optional Supplies: Binder

Offered:

Duration: Traditional year

High School Credit: 1 cr. science

College Cr

edit: None

Course Description: Physics is the study of matter and energy and their interactions. Topics of study will include: velocity, acceleration, Newton's Three Laws of Motion, vectors, universal gravitation, the conservation of momentum, work and energy, simple and compound machines, current electricity and circuits.

Social Studies

The table shows graduation requirements for social studies. Students must complete 3.5 HS credits of social studies for graduation.

Grade 9	U.S. Government and Citizenship (1.0 Credit)
Grade10	American History (1.0 Credit)

Grade 11	World History and Geography (1.0 Credit)
Grade 12	Economics (.5 credit)

Social Studies 7

Required for students in grade 7

Prerequisites: None

Offered: Every Year

Required Supplies: Notebook, Pens/Pencils

Duration: Traditional Year

High School Credit: None

College Credit: None

Course Description: Grade 7 features U.S. History as the main focus of the class. Students will also study citizenship and government. The interdisciplinary “studies” approach is further enhanced with important economics and geography content that round out the study of United States history. Students learn about people, issues and events of significance to this nation’s history from 1800 to the current era of globalization. They examine the Declaration of Independence, the Constitution and the Bill of Rights, and Supreme Court decisions for their lasting impact on the American people, economy and governance structure. Students study civics and economic principles in depth, drawing connections between these disciplines and history to explain the impact of various policies on how people lived, worked and functioned in society. They create and use detailed maps of places in the United States and conduct historical inquiry on a topic in the nation’s history.

Social Studies 8

Required for students in grade 8

Prerequisite: None

Required Supplies: Pencils, Notebook,

Optional Supplies: Colored pencils

Offered: Every Year

Duration: Traditional Year

High School Credit: None

College Credit: None

Course Description: In 8th Grade World History, Geography, and Culture we will cover a wide array of topics to give students the necessary foundation to better understand their world. Some of the topics to be covered will include: Founding Civilizations and first peoples in each region, patterns of settlement and colonization, political and social changes, human-environment interactions, landforms, resources, climate and vegetation, economic development, cultural development and conflict through history. This course will focus on the World which includes; North America, South America, Europe. Africa, The Middle East, The Indian Subcontinent, The Far East, South East Asia as well as Australia and Oceania.

U.S. Government and Citizenship

Required for students in grade 9**Prerequisite:** None**Required Supplies:** Pencils/Pens, Notebook**Optional Supplies:** jump drive/usb drive**Offered:** Every year**Duration:** Traditional Year**High School Credit:** 1 cr. social studies**College Credit:** none

Course Description: The course is designed for 9th graders to fulfill graduation requirements. This course will provide the learner with a basic understanding of civic life, politics, and government; a short history of its foundation and development, what rights the American government guarantees its citizens, and a survey of the duties and responsibilities American citizens must exercise in order to maintain their government. It will introduce the workings of our own and other political systems as well as the relationship of American politics and government to world affairs. In today's increasingly interdependent world, it has become necessary for students to think and learn globally. Understanding how our own country interacts with and affects others is no longer enough; to gain a full and true understanding of international events we must also study the political structures and perspectives of other nations, and how *they* compare, affect, and interact with one another. Students will compare and contrast the ideologies, governments, and policies of different countries in order to grasp the full significance of the current world political scene and anticipate and prepare for where it is going in the future.

American History**Required for students in grade 10****Prerequisite:** None**Required Supplies:** pencils/pens, notebook**Optional Supplies:** jump drive/usb drive**Offered:** Every Year**Duration:** Traditional Year**High School Credit:** 1 cr. social studies**College Credit:** none

Course Description: The course is designed for 10th graders to fulfill graduation requirements. In U.S. History, we will examine aspects of U.S. history beginning with the indigenous people of North America to the present. While this is a survey course, we will focus on certain periods or events in U.S. history more than others, in an attempt to explore certain issues and themes in greater depth. These areas include: the Revolution and the founding, Western Expansion and Sectionalism, the Civil War and Reconstruction, the rise of the U.S. as a world power.

World History and Geography**Required for students in grade 11****Prerequisite:** None**Required Supplies:** notebook, pencils/pens

Optional Supplies: jump drive/usb drive

Offered: Every year

Duration: Traditional year

High School Credit: 1 cr. social studies

College Credit: none

Course Description: The course is designed for 11th graders to fulfill graduation requirements. This course is a survey of world history to the mid-1600s. We will begin with the first river valley civilizations, and then discuss societies from Asia, Africa, and Europe. In addition to the specifics of particular societies at particular times, we also will examine themes that cut across time.

Economics

Required for students in grade 12

Prerequisites: None

Required Supplies: Notebook, exclusive to social, blue/black pen, pencil.

Offered: Every Year

Duration: Traditional Semester

High School Credit: 0.5 cr.

College Credit: None

Course Description: The course is designed for 12th graders to fulfill graduation requirements. This course is a survey of various economic concepts. These concepts include economic reasoning skills, personal finance, fundamental concepts of economics, microeconomics, and macroeconomic concepts. This course will give the students a greater understanding of economics ranging from the viewpoint of individual consumer or small business owners to the global economy. This course will study the law of supply of demand, forms of business, labor unions, government finances and influence on the economy, money and prices, inflation and deflation cycles.

Personal Finance

Elective for students in grade 10-12

Prerequisites: None

Required Supplies: School issued electronic device, earbuds, writing materials, and memory stick

Optional Supplies: None

Offered: Every year

Duration: Traditional semester

High School Credit: 0.5 credit

College Credit: No

Course Description: This course is a must for all students interested in learning about financial decisions they will face when they are out on their own. This course will use a combination of resources including but not limited to the “*FoolProofs Financial Literacy Curriculum*”. Students will learn critical thinking skills rather than rote money skills. For instance, what good does it do to teach young people the budgeting process if they don't know how to spend money wisely? Topics will include Making Career and College Decisions, Money Management, Financial Security, Credit Management, Resource Management, Risk Management, and Consumer Rights and Responsibilities.

Psychology

Elective for students in grades 11-12

Prerequisite: None

Required Supplies: Notebook, pencils/pens

Optional Supplies: Jump drive/USB drive

Offered: Spring 2020 Every other year

Duration: Traditional Semester

High School Credit: 0.5 cr.

College Credit: None

Course Description: An introduction to the scientific study of human behavior: history, background and methods, development, perception, learning, thinking, motivation, emotion, intelligence, personality adjustment, mental health, and social psychology.

US History II

Elective for students in grades 9-12

Prerequisite: None

Required Supplies: Notebook, pencils/pens

Optional Supplies: Jump drive/USB drive

Offered: Fall 2020 Every Other Year

Duration: Traditional year

High School Credit: 1.0 cr.

College Credit: None

Course Description: US History II will explore America's rise to a world power and how it influences current events presently. The successes and challenges of rising and remaining a world economic, social, political and cultural power will be examined. America's dramatic change during this period will be presented through the scope of pop culture, feminism, the environmental revolution, Vietnam, space exploration, counter-culture, urban renewal, the computer age, and more.

Integrated Social Studies

Elective for students in Grades 9-12

Prerequisite: None

Required Supplies: Notebook exclusive to social, blue/black pen, pencil

Offered: Fall 2019 Every Other Year

Duration: Traditional year

High School Credit: 1.0 cr. Social Studies

College Credit: None

Course Description: Integrated Social Studies will cover current events and how they relate to American and World history.

Technology

Computers 7

Required for students in grade 7

Prerequisites: None

Required Supplies: None

Optional Supplies: None

Offered: Every year

Duration: Traditional semester

High School Credit: None

College Credit: None

Course Description: This course will provide the opportunity for students to learn how to operate the computer keyboard with speed and accuracy, learn basic computer operations, as well as operation of their iPads and applications. Students will gain experience with Microsoft Office basics, using student's gmail account, sending attachments and email etiquette will be covered. Students will also cover a unit on how to use the internet effectively, and internet security. Students will cover various digital safety skills and raise awareness of digital social issues, including digital citizenship.

Technology 8

Required for students in grade 8

Prerequisites: None

Required Supplies: Charged Chromebook, earbuds,

Optional Supplies: usb mouse

Offered: Every year

Duration: Traditional semester

High School Credit: None

College Credit: None

Course Description: This course will provide the opportunity for students to learn how to operate the computer keyboard with speed and accuracy, create and format word processing documents, presentation documents, spreadsheet documents, and be able to create simple Publisher documents such as invitations and cards. Students will cover features of Google Apps and other emerging technologies. The first quarter will review digital literacy & citizenship, online safety, and ethical responsibilities in this class. After students demonstrate their technology skill set and understanding of ethical digital citizenship. This class incorporates ISTE and Minnesota Technology standards.

Computers/Technology 9

Required for students in grade 9 starting the 2018-2019 school year.

Prerequisites: None

Required Supplies: None

Optional Supplies: Charged Chromebook

Offered: Every year

Duration: Traditional semester

High School Credit: 0.5 credit technology

College Credit: None

Course Description: This course will provide students computer/digital skills. Technology skills developed in this course will include various digital programs. Students will work with advanced Microsoft office suite applications. Students will advance their technological skill using Google Applications. Digital safety and Digital Citizenship will also be incorporated into this course. Students will continue building their keyboarding skills and increase their knowledge of computer commands.

Computer Applications

Elective for students in grade 9-12

Prerequisites: Computers 9

Required Supplies: None

Optional Supplies: None

Offered: 2016-2017 Every other year

Duration: Traditional semester

High School Credit: 0.5 credit technology

College Credit: None

Course Description: This course will give students computer skills that will serve them throughout their school years and their personal lives. Students will be able to key reports in a variety of formats, prepare tables, produce advanced PowerPoint presentations, learn how to navigate in and use the spreadsheet professionally, and create professional documents in Publisher.

Computer Creations

Elective for students in grades 9-12

Prerequisites: Computers 9

Required Supplies: None

Optional Supplies: None

Offered: Every year

Duration: Traditional semester

High School Credit: 0.5 credit technology

College Credit: None

Course Description: This course will give students the technological edge needed to create great looking printed graphics and documents such as flyers, brochures, and magazine covers. Students will explore the world of desktop publishing using Publisher. The focus of this course will be on page layout, graphics, and using drawing tools to create visually appealing documents. This course will also explore emerging technologies.

Student Directed Technology Innovation Course

Elective for students in grades 11-12

Prerequisites: Computer Experience

Required Supplies: Charged Chromebook, earbuds, 3-ring binder with dividers, composition journal

Optional Supplies: usb mouse

Offered: 2019-2020 New Offering

Duration: Traditional year

High School Credit: 1 credit technology

College Credit: None

Course Description: The Student Directed Technology Innovation Course is a hands on study of technology integration in an educational context. The first quarter will review digital literacy & citizenship, online safety, and ethical responsibilities in this class. After students demonstrate their technology skill set and understanding of ethical digital citizenship, they will be required to assess problem sets throughout the day and define the best approach to addressing or solving the problem. In addition to solving problems for students and teachers, students will be required to complete and maintain several running projects that address problems or solutions in many content areas as chosen by the student.

Digital Media Production

Elective for students in grades 9, 10,12

Prerequisites: Computer Experience

Required Supplies: Charged Chromebook, earbuds, 3-ring binder with dividers, composition journal

Optional Supplies: usb mouse

Offered: Spring Semester 2020-2021

Duration: Traditional Semester

High School Credit: 0.5 credit technology

College Credit: None

Course Description: Digital Media Production employs technology and art to create products. Students will use a multiple range of digital technologies to design and create products. Participants use tools and resources acquired in the library to plan and create digital projects.

Digital Literacy

Elective for students in grades 9, 10, 12

Prerequisites: Basic computer experience

Required Supplies: Charged device, composition notebook, writing utensil

Optional Supplies: USB mouse

Offered: Fall Semester 2020-2021

Duration: Traditional semester

High School Credit: 0.5 credit technology

College Credit: None

Course Descriptions: The first quarter will review digital literacy & citizenship, online safety, and ethical responsibilities in this class. After students demonstrate their technology skill set and understanding of ethical digital citizenship, they will be required to assess problem sets throughout the day and define the best approach to addressing or solving the problem. In addition to solving problems for students and teachers, students will be required to complete and maintain several running projects that address problems or solutions in many content areas. This course will help students learn basic web design skills and introduce them to various web based technologies. Students will design a webpage using website creation sites such as Weebly and Google Sites. The students will create blogs used for instructional purposes only. These blogs will be deleted after the class ends. Students will also learn how to use and create a wiki. Students also have the opportunity to create a newscast using digital technologies. Students will also explore new digital technologies.

Digital Technologies

Elective for students in grades 10-12

Prerequisites: Computers 9

Required Supplies: None

Optional Supplies: None

Offered: 2015-2016 Every other year

Duration: Traditional semester

High School Credit: 0.5 credit technology

College Credit: None

Course Descriptions: This course will help students learn basic web design skills and introduce them to various web based technologies. Students will design a webpage using website creation sites such as Weebly and Google Sites. The students will create blogs used for instructional purposes only. These blogs will be deleted after the class ends. Students will also learn how to use and create a wiki. Students also have the opportunity to create a newscast using digital technologies. Students will also explore new digital technologies.

World Language

Spanish I

Elective for students in grades 9-12

Prerequisites: None

Offered: Every year

Duration: Traditional year

High School Credit: 1 cr. world language

College Credit: None

Course Description: Spanish I provides an introduction to the language and culture of the Spanish-speaking world. Students become familiar with pronunciation, build vocabulary and use present, present-progressive and preterit verb forms. Students attain an acceptable degree of proficiency in the skills of listening, speaking, reading and writing.

Spanish II

Elective for students in grades 10-12

Prerequisite: Spanish I

Offered: Every year

Duration: Traditional year

High School Credit: 1 cr. world language

College Credit: None

Course Description: Spanish II includes more vocabulary and expands on the cultural themes of the first level. Reflexive, imperfect and future verb forms allow students to express themselves more extensively. Dialogues and discussion are an important part of the process as students use the language for personal communication.

OTHER COURSE OFFERINGS

Life Skills

Elective for students in grade 11 & 12

Prerequisites: None

Required Supplies: None

Offered: Every year

Duration: Traditional Semester

High School Credit: .5 cr.

College Credit: None

Course Description: Life skills is designed to provide teens with practical skills in self-awareness, interpersonal skills, problem-solving, time and money management, working with food, personal care, job seeking and career planning and other life issues. Math and language skills will take place daily through a variety of problems to solve and assessments for personal growth.

Work Experience

Elective for students in grade 11 & 12

Prerequisites: None

Required Supplies: None

Offered: Every year

Duration: Traditional Semester

High School Credit: .5 cr.

College Credit: None

Course Description: The “Work Experience” is designed to allow students the opportunity to earn credit working for “partners” outside the school setting and during the school day. Students are under the direct supervision of their work site supervisor while they are working. The work site supervisor will be responsible for assisting in the grading of the student’s work habits, work quality and overall effort. Work hours are treated the same as class time. Students will be at work everyday, will fill out a journal form every day, and fulfill their daily duties. Journals must be turned in to the Principal on a weekly basis. A total of .5 credits in 4 years can be earned in Work Internship, unless arrangements are made with the Principal or the student is involved in special programming.

Work Experience DOES NOT count in the determination of honor roll.

Preapproval of the principal is required for admission into a work internship.

Teacher Assistant

Elective for students in grade 10-12

Prerequisites: Teacher Approval

Required Supplies: None

Offered: Every year

Duration: Traditional Semester

High School Credit: .5 cr.

College Credit: None

Course Description: The Teacher Assistant Program is designed to allow students the opportunity to earn credit assisting teachers during the school day. Students are under the

direct supervision of their supervising teacher while they are working. The teacher will be responsible for the grading of the student's work habits, work quality and overall effort. Students will be at their service site everyday, complete a daily journal, and fulfill their daily duties. Journals must be turned in to the cooperating teacher each week. A total of .5 credits in 4 years can be earned in Teacher Assistant, unless arrangements are made with the Principal.

**Teacher Assistant DOES NOT count in the determination of honor roll.
Preapproval of the principal and supervising teacher is required for admission into teacher assistant program.**