

Mountain Lake
High School
Registration Guide
2019-2020



Table of Contents

| | |
|--------------------------------------|---|
| General Information..... | 3 |
| Schedule Changes | 3 |
| Graduation Requirements..... | 4 |
| College Admission Information | 5 |
| College Courses in High School | 6 |
| Online PSEO Policy | 7 |
| Registration Planner | 8 |

Course Descriptions by Departments

| | |
|--------------------------------------|----|
| Art..... | 10 |
| Career and Technical Education | 10 |
| English..... | 14 |
| Mathematics..... | 16 |
| Music | 17 |
| Physical Education/Health | 18 |
| Science..... | 18 |
| Social Studies | 20 |
| World Languages (Spanish) | 21 |

General Information

Students will pre-register with their desired courses. Pre-registering does not guarantee entrance to a course. Administration will use pre-registration numbers as a factor in creating the master schedule. After creation of the master schedule, the school counselor will contact students who have conflicts with their pre-registration choices and the master schedule. Administration will make the final determination of a student's course registration and schedule. In the event that a course is full, students who pre-registered for the course will receive priority over the students who did not pre-register for the course.

Mountain Lake High school grants credit each quarter. Students must earn a passing grade each quarter to earn .25 credit for that course. Students who do not pass a required class will need to retake the class for the failed quarter. Credit recovery may be completed in an online credit recovery program, at the Alternative Learning Center (ALC), or the following year in the regular class. Administration will determine the credit recovery plan for each student on an individual basis.

Schedule Changes

It is the intent of the administration and guidance office that students would be enrolled in their courses at the beginning of the school year. Schedule changes are highly discouraged. Students are expected to demonstrate responsibility and integrity while making registration decisions. As a school community, we must show respect to the administration as they make budgetary decisions based on registration numbers, to classmates who are denied a class when the enrollment reaches maximum allowance, and to the staff as they order instructional materials for their classrooms.

However, it is recognized that in certain situations, students may need to change their class schedule. Students may request to drop or add courses in specified time frames. Approval for the schedule change must have permissions from teachers, parents, and administration. Typical reasons for a schedule change are: 1) teacher request, 2) eliminate a study hall, 3) medical reasons, 4) reschedule a failed course, 5) correct scheduling error or 6) accommodate rigorous college courses.

Courses that are yearlong courses may be dropped the first 5 days of the first semester. Only in unusual situations will students be allowed to drop a yearlong course at the end of 2nd quarter.

Courses that are 2 quarters in length may be dropped or added during the first 5 days of Quarter 1 or 3.

Graduation Requirements

A minimum of 23 required credits are needed to earn a diploma from Mountain Lake High School.

English Language Arts - 4 credits required

English 9 – 1 cr.

English 10 (including Speech) – 1 cr.

English 11 American Literature - 1 cr.

OR

British Literature - .5 cr. & Accelerated American Literature – .5 cr.

English 12 College Writing or Senior Writing – .5 cr.

AND

College Literature or Senior Novels – .5 cr.

Fine Arts - 1 credit required

Senior Band - .5 cr. per year

Senior Choir - .5 cr. per year

Adv. Horticulture - .5 cr.

Metal Arts - .5 cr.

Horticulture - 2nd semester - .5 cr.

Adv. Metal Arts - .5 cr.

Visual Art 2-D - .5 cr.

Drawing & Painting - .5 cr.

Mathematics - 3 credits required

Geometry – 1 cr.

Algebra II – 1 cr.

Intermediate Algebra – 1 cr.

Pre-Calculus – 1 cr.

(For graduates of 2017-2019, 9th Grade Algebra will count towards the 3 credits)

Physical Education/Health - 2 credits required

Physical Education /Health 9 – 1 cr.

Physical Education/Health 10 – 1 cr.

Science - 3 credits required

Physical Science (required)– 1 cr.

Biology (required) – 1 cr.

Chemistry – 1 cr.

Physics – 1 cr.

Social Studies - 4 credits required

Civics 9 – 1 cr.

Social 10 - Geography- .5 cr. AND American History - .5 cr

Social 11 - World Geography & History - 1 cr.

Social 12 - Sociology– .5 cr. AND Economics - .5 cr

Electives - 6 credits required

College Admission Requirements

Admission requirements for the public and private colleges and universities vary in the state of Minnesota. The information listed below includes general requirements for the Minnesota State Colleges and Universities system (minnstate.edu).

Two- Year Public Schools: A high school diploma or GED is required. No admissions test is required, and high school rank and G.P.A. are not considered. After admittance to the school, a placement test is required to determine class placement.

Four-Year Public Schools: Students must take an admission test (ACT or SAT) and receive a score of 21 or higher on the ACT, or a combined score of 1,000 on the current SAT; OR graduate in the top half of the high school graduating class.

Four-year colleges also have high school course requirements:

- Four years of English, including composition, literature and speech
- Three years of math, including two years of algebra, one of which is intermediate or advanced algebra, and one year of geometry
- Three years of science, including one year each of a biological and a physical science, all with significant laboratory experience
- Three years of social studies, including one year each of geography and U.S. history
- Two years of a single world language, including non- English native languages and American Sign Language
- One year of arts (visual arts and the performing arts of theater, music, dance and media arts)

Four-Year Private Schools: Minnesota Private Colleges in the state of Minnesota have a dedicated webpage (mnprivatecolleges.org) that lists requirements for each individual college. General requirements for the colleges include:

- Personal information
- High School transcript
- ACT or SAT score

University of Minnesota System: The University of Minnesota has primary and secondary factors which are taken into consideration when admitting students. These requirements can be found at http://admissions.tc.umn.edu/admissioninfo/fresh_faq.html

Primary factors include:

- Coursework through high school graduation. (Admitted students typically exceed the University's high school requirements.)
- Grades in academic coursework
- Class rank/Grade point average
- ACT or SAT scores

College Courses In High School

Mountain Lake High School offers two options to earn college credit while in high school. These options are called Concurrent Enrollment and Post Secondary Enrollment Options (PSEO). These opportunities are available to students who meet certain eligibility criteria. Students seeking these opportunities need to meet with the high school counselor.

Concurrent Enrollment

Concurrent enrollment courses are courses taught in our high school by MLHS teachers that have been approved by Southwest Minnesota State University (SMSU) in Marshall or Minnesota West Community and Technical College (MN West) in Jackson. Students receive instruction from our teachers each day in the regular school day. Students who meet the eligibility criteria for SMSU or MN West receive college credit AND high school credit. There is no cost to the students. The courses offered are: College Writing (semester), Intro to Literature (semester), and College Physics Lecture and Laboratory (year long).

Post Secondary Enrollment Options (PSEO)

Colleges, universities and technical schools in the state of Minnesota open a variety of their entry-level courses to high school students in grades 10, 11, and 12. Career and technical education classes are the only classes available to 10th grade students. Each college, university, or technical school establishes the criteria for enrollment in a college course. These courses can be online or on the campus. The instructors for these courses are college instructors/professors. The Mountain Lake School PSEO policy on the following page is enforced for online courses. There is no cost to the student for these courses.

Online Post Secondary Education Options Policy

1. Follow Minnesota Department of Education (MDE) Guidance (2015) and allow qualifying 10th, 11th, and 12th grade students to earn college credit while still in high school through enrollment in and successful completion of online Post Secondary Education Options college-level courses.
2. Follow Minnesota Department of Education (MDE) Guidance (2015) and allow qualifying 10th, 11th, and 12th grade students to take an unlimited amount of online Post Secondary Education Options credits.
3. Follow current Mountain Lake High School graduation requirements that include 23 credits for a student to graduate from the Mountain Lake High School.
4. The final decision about which Mountain Lake High School class(es) will be allowed to be exchanged or substituted by an online Post Secondary Education Options college courses will be made by high school administration. Mountain Lake High School students will not be allowed to substitute a particular Mountain Lake High School with online Post Secondary Education Options college courses at their (the student's) unilateral discretion.
5. Supervision of Mountain Lake High School students taking online Post Secondary Education Options college courses on site by Mountain Lake Public School staff members will be made by Mountain Lake High School administration. Students who are allowed to take online Post Secondary Education Options college courses site will be required to follow Mountain Lake High School and on line Post Secondary Education Options college course policies and rules. Failure to abide by policies and rules will result in loss of privileges including supervision of students, use of school site and use of school materials.
6. The use of classroom space and district materials by Mountain Lake High School students taking online courses on site by Mountain Lake Public School staff members will be made by Mountain Lake High School administration. Students would be required to follow Mountain Lake High School and on line Post Secondary Education Options college course policies and rules. Failure to abide by policies and rules will result in loss of privileges including use of school site and materials.
7. Mountain Lake High School staff is not required to provide direct supervision and assistance (technical, tutorial, guidance, accountability, etc.) for online Post Secondary Education Options students to complete their online Post Secondary Education Options coursework unless such services and assistance (technical, tutorial, guidance, accountability, etc.) are required by Minnesota Department of Education (MDE) Guidance (2015) or Minnesota Statute.
8. Follow current Minnesota Department of Education (MDE) Guidance (2015) and allow qualifying 10th and 11th grade students at least one study hall (or class period if no study hall is available) per day (up to 1 of 7 hours) to complete online PSEO assignments.
9. Allow qualifying 12th grade students at least two study halls (or class period if no study hall is available) per day (up to 2 of 7 hours) to complete online PSEO assignments.

Registration Planner- Grades 9 & 10

Use the following planner to help you select your courses. Course descriptions follow the planner organized by department.

Grade 9

Required:

- English 9
- Geometry
- Civics 9
- Physical Science
- PE/Health 9

Electives:

- Senior High Band
- Senior High Choral
- Agricultural Education I

Grade 10

Required:

- English 10
- Geometry
- Social 10
- Biology
- PE/Health 10

Electives:

- Senior High Band
- Senior High Choral
- Agricultural Education II

Registration Planner - Grades 11 & 12

Use the following planner to help you select your courses. Course descriptions follow the planner organized by department.

Grade 11

Required:

English 11 (Select 1 of 2 options)
Chemistry
Algebra II or Pre-Calculus
Social 11

Electives:

Agricultural Ed. III
Art I – S1
Building Construction
Computer Aided Drafting (CAD)- S1
Food Science/World Foods
Horticulture
Journalism
Metal Arts – S2
Music Exploration
PSEO class
Robotics – S2
Senior High Band
Senior High Choral
Spanish I
Veterinary Science
Visual Art 2-D – S2
Woods – S1

Grade 12

Required:

English 12 (1 writing & 1 literature)
Social 12

Electives:

Adv. Culinary Arts-S2
Adv. Horticulture- S1
Ag Leadership
Agriculture Ed. IV
Art I – S1
Building Construction
College Physics
Computer Aided Drafting (CAD) S1
Food Science/World Foods
Horticulture
Journalism
Metal Arts – S2
Music Exploration
Personal Finance
Pre-Calculus
PSEO Class
Robotics – S2
Senior High Band
Senior High Choral
Spanish I
Spanish II
Veterinary Science
Visual Art 2-D – S2
Woods – S1

Art

Art I - Drawing & Painting

Gr 11-12

0.5 credit

This course will cover a wide range of basic art theory and media. We will explore color, composition, design, and drawing as related to other art projects. Media may include pencil, markers, acrylic, watercolor, ink, color pencil, oil pastels, and charcoal. Drawing and painting are explored with specific purpose and meaning. Artistic voice, technical skills, historical and cultural perspectives as well as critiques and self-evaluations are all explored with a variety of techniques and styles.

Visual Art 2-D

Gr 11-12

0.5 credit

The 11th & 12th grade Visual Art program focuses on three major areas of visual learning: ways of recording visual information; assembling images that have meaning; and responding to visual images. Students will demonstrate skills with elements, media, and techniques. ***The content includes drawing, painting, and mixed media.*** Evaluation is project based. The portfolio is a record of the concepts and skills each student demonstrates through effort and achievement following the goals and objectives. This course will cover a wide range of basic art theory and media. We will cover the use of color, composition, design and drawing as related to other art projects.

Career and Technical Education

Agriculture Education I

Gr 9

1 credit

This course is an exploratory course for agriculture. Areas of study include basic woodworking, FFA, SAE development, soils, career exploration, parliamentary procedures, wildlife and fisheries. This course is open to any students with an interest in the field of agriculture. All students are encouraged to participate in a career development event that is of interest to them. The instructor will work with each student to develop and improve that student's project. This class qualifies students to belong to FFA and participate in a Supervised Agricultural Experience.

Agriculture Education II

Gr 10

1 credit

This course is designed to provide students instruction in four of these eight areas: small animal science, electricity and wiring, small engines, birds & waterfowl, landscaping, surveying, agri-science, and welding based upon class interest. Students will rotate classes each quarter based upon ranking and numbers. The goal of this class is to provide students an eye opening experience in several agricultural career pathways and the impact on their daily life. All students are encouraged to participate in a career development event that is of interest to them. The instructor will work with each student to develop and improve that student's project. This class qualifies students to belong to FFA and participate in a Supervised Agricultural Experience.

Agriculture Education III**Gr 11****1 credit**

This course explores a number of different areas in Production Agriculture common in our surrounding communities. Some topics covered include: All facets of Crop Production (Fertilizer, Irrigation, Weed/Crop Identification), Animals Production (Technology, Breeding/Genetics, Meat Science). To enhance student learning guest speakers within the community and hand-on learning are commonly used. Additional topics of Archery and Career Skills are also included. This course is open to any student who has an interest in the field of agriculture. All students are encouraged to participate in a career development event that is of interest to them. The instructor will work with each student to develop and improve that student's project. This class qualifies students to belong to FFA and participate in a Supervised Agricultural Experience.

Agriculture Education IV**Gr 12****1 credit**

This course provides students with instruction in farm and agri-business management. Specific areas include machinery management, marketing, cooperative's records and accounting, business analysis, taxes, depreciation, credit, ratio analysis, legal documents, insurance, estate planning, cash flows, and net worth statements. This class qualifies students to belong to FFA and participate in a Supervised Agricultural Experience.

Advanced Culinary**Gr 12****0.5 credit**

Advanced Culinary is a class that allows students to go to the next level in kitchen knowledge through learning new preparation and cooking methods, teaching methods to each other, completing a baking (cake decorating) unit, use baking science to modify/create recipes, and compete in the Culinary Skills Challenge at SMSU. This class is usually paired with Advanced Horticulture. This class qualifies students to belong to FFA. Prerequisite: Food Science or teacher approval.

Advanced Horticulture**Gr 12****0.5 credit**

Advanced Horticulture (Floral and Art) is a class that will allow students to work more independently on floral arrangements, planting/transplanting/potting, school and community projects, and art projects. Students in this class also complete a final project that gets submitted to two art shows. This class is usually paired with Advanced Culinary Skills. This class qualifies students to belong to FFA. Prerequisite: Horticulture or teacher approval

Advanced Woods**Gr 12****0.5 credit**

This course will focus on the construction of detailed interior project constructed out of wood materials. Safety in the shop and on the job site will be stressed throughout the course. Students must possess the knowledge or learn the safe and proper use of a variety of hand tools, power tools, and other equipment in the shop. Each student will be required to complete a project of his or her choice with instructor approval. This class qualifies students to belong to FFA. Prerequisite: Woods or prior approval from instructor.

Advanced Metal Art**Gr 12****0.5 credit**

This course will focus on the artistic standpoint of welding and fabrication. Art principles will be studied, and the students will learn about artistic metal structures around the world. Each student will plan and create their own piece of art during the course as well as a group project within the community. Welding skills will be practiced, but from an artistic standpoint rather than from an industrial standpoint. This class qualifies students to belong to FFA. Prerequisite: Metal Art or prior approval from instructor.

Agricultural Leadership & Communication**Gr 11, 12****1 credit**

You can either lead or you can follow. This course is designed to help students reach their leadership potential. Skills expected in the workplace will be addressed. Topics range from public speaking to parliamentary procedures. Students will learn about proper etiquette in the workplace, working as a member of a team, becoming self-motivated, and delivering clear and appropriate communication. This course is open to any student who has an interest in developing their leadership potential. All students are encouraged to participate in a career development event that is of interest to them. The instructor will work with each student to develop and improve that student's project. This class qualifies students to belong to FFA and participate in a Supervised Agricultural Experience.

Agricultural Occupations**Gr 11, 12****0.5 credit/semester**

This class is open to students for work experience in agricultural related businesses. The work may be during part of the school day, before or after school, on weekends or a combination according to agreement with the employer. The student learner can be paid for their work or it can be unpaid in a form of an internship. The goal is to provide experience working with adults in actual employer/employee situations. Students in the program will discuss their occupational objectives with the instructor and complete some assignments on classroom, classroom assignments are based on how many days worked. Students will have an appropriate training program and all guidelines and policies for the training program must be followed. Partnerships between area businesses have been formed and instructors help students with placement into jobs. This class qualifies students to belong to FFA.

Food Science/World Foods**Gr 12****1 credit**

During first semester, this course focuses on the fundamentals of cooking and some of the science behind it. Students will learn sanitation, measuring, terms, food preparation and how to replace and substitute everyday items in recipes. The overall goal is to get students comfortable in the kitchen and ready for life after high school. During 2nd semester, students learn about where their food comes from. The customs, traditions and methods of production that impact agriculture around the world will be examined. Students will prepare dishes from a variety of countries and from ethnic influences around the world. Kitchen safety and food safety are used throughout these courses. Meal planning and budgeting for groceries is also highlighted. Students are required to try all food made in class, unless allergic. This class qualifies students to belong to FFA.

Horticulture**Gr 11, 12****1 credit**

Horticulture is one of the most rapidly growing aspects of Agriculture. Horticulture is the study of plants as it relates to garden plants, flowers, shrubs, and landscaping. Floral design and art principles will also be studied in this course as well as stain glass and basic art principals. Students complete a unit of floral design and a quarter of art (stain glass, painting, drawing, and more). Fundamentals of plant growth, photosynthesis, germination, propagation, transplanting, and plant nutrition will be taught in the classroom and the greenhouse setting. This course is open to any student who has an interest in horticulture, floral design and art. All students are encouraged to participate in a career development event that is of interest to them. The instructor will work with each student to develop and improve that student's project. This class qualifies students to belong to FFA and participate in a Supervised Agricultural Experience.

Metal Arts**Gr 11, 12****0.5 credit**

This course will focus on the artistic standpoint of welding and fabrication. Art principles will be studied, and the students will learn about artistic metal structures around the world. Each student will plan and create their own piece of art during the course as well as a group project within the community. Welding skills will be practiced, but from an artistic standpoint rather than from an industrial standpoint. Introductory shop skills are required but a refresher in all welding processes will be given. This class qualifies students to belong to FFA.

Natural Resources**Gr 11, 12****0.5 credit**

This course will explore the natural resources of Minnesota and the rest of the United States. Conservation practices will be discussed as it relates to people, land, plants, water, and wildlife. The balance between conservation, and preservation will be examined as well as other natural resource management ideologies. The history of natural resources past, present, and future will be a focus of the course. Another focus is the management of the Minnesota fish and wildlife species. Population management principles in regards to the carrying capacity of the ecosystem will be stressed. Students will learn about binomial nomenclature as it relates to Minnesota wildlife. This class qualifies students to belong to FFA.

Personal Finance**Gr 12****0.5 credit**

During this course, the students will study many facets of finance they will face after graduation. Students will learn financial terms, money management, scholarships, grants, investments, insurance, taxes, mortgages, and retirement finances. Students participate in a scenario were they have income and expenses that they track during the duration of the course. Exploration of all the areas necessary for the financial well-being of all students throughout different stages of their life. The curriculum will cover taxes, mortgages, retirement, college expense, budgets, checking accounts, savings accounts, paying bills, insurance, was well as other financial strategies. This course will attempt to model and practice many of the strategies and activities necessary to connect these experiences with real world applications. This class qualifies students to belong to FFA.

Veterinary Science**Gr 11, 12****1 credit**

This course will cover many aspects of animal and veterinary science, from terminology to systems (nervous, digestive, respiratory, and more). Students will develop knowledge in (both animal and human) anatomy, physiology, and the inner working of them. Students will complete numerous labs and dissections. The Curriculum for Agricultural Science Education (CASE) will be a focus of this class. This course is open to any students that have interest in all areas of science and working in medical based careers. All students are encouraged to participate in a career development event that is of interest to them. The instructor will work with each student to develop and improve that student's project. This class qualifies students to belong to FFA and participate in a Supervised Agricultural Experience.

Woods**Gr 11, 12****0.5 credit**

Woods will focus on the construction of detailed interior project constructed out of wood materials. Safety in the shop and on the job site will be stressed throughout the course. Students must possess the knowledge or learn the safe and proper use of a variety of hand tools power tools, and other equipment in the shop. Each student will be required to complete a project of choice with instructor approval. This class qualifies students to belong to FFA.

English Language Arts

English 9**Gr 9****1 credit**

This course is designed to expose students to various genres of literature centered around a particular theme and help them understand and apply literary elements to the pieces of literature. This course also includes a focus on the writing process and strengthening students' writing skills. In addition, students will reinforce and further develop their knowledge of proper grammar, mechanics of writing, and vocabulary.

English 10 (includes Speech)**Gr 10****1 credit**

This course is designed to expose students to various genres of literature from around the world and help them understand and apply literary elements to the pieces of literature. In addition, students reinforce and further develop their knowledge of proper grammar, mechanics of writing, and vocabulary.

During the speech portion of this course, students learn how to research and analyze information from various sources, organize the information into an outline, and use the outline as a guide for an oral presentation. Each student will give several oral presentations with a variety of purposes-to inform, demonstrate, and persuade. Ultimately, the students will learn how to present information fluently and in a manner that engages their audience.

English 11 **Gr 11** **1 credit**

British Literature (.5 credit) and Accelerated American Literature (.5 credit)

The British Literature course is designed to expose students to various genres of literature from England, show them how literature developed within historical contexts, and help them understand and apply literary elements to the pieces of literature. During Accelerated American Literature, students study various genres of literature from the United States and how the literature developed in historical contexts. During both courses students will reinforce and further develop their knowledge of proper grammar, mechanics of writing, and vocabulary.

OR

American Literature **Gr 11** **1 credit**

This course is designed to expose students to various genres of literature from the United States, show them how the literature developed within historical contexts, and help them understand and apply literary elements to the pieces of literature. In addition, students will reinforce and further develop their knowledge of proper grammar, mechanics of writing, and vocabulary.

English 12 - Students must choose one writing course and one literature course from the following courses.

College Writing (College course) **Gr 12** **0.5 credit**

This course is designed to enhance students' writing skills by exposing them to various forms of writing and teaching them how to adapt their writing style for a variety of purposes. The essays required in this course are longer and more in-depth than those required for Senior Writing. Eligible students will earn college credit through Minnesota West Community & Technical College.

Senior Writing **Gr 12** **0.5 credit**

This course is designed to enhance students' writing skills by exposing them to various forms of writing and teaching them how to adapt their writing style for a variety of purposes. In addition, students will continue to reinforce and further develop their knowledge of proper grammar and mechanics of writing.

Senior Novels **Gr 12** **0.5 credit**

This course is designed to expose students to various classic American novels, show them how the novels relate to the time periods in which they were written, and help them understand and apply literary elements to their reading. In addition, students will reinforce and further develop their knowledge and use of vocabulary.

College Literature (College Course) **Gr 12** **0.5 credit**

This course is designed to expose students to various classic American novels and one play, show them how the novels and play relate to the time periods in which they were written, and help them understand and apply literary elements to their reading. In addition, students will reinforce and further develop their knowledge and use of vocabulary. Eligible students will earn college credit through Minnesota West Community & Technical College.

Journalism**Gr 11, 12****1 credit**

Students are responsible for all phases involved in the production of the yearbook including taking pictures at school events, layout and design, photo cropping, and preparation for printing. Additional projects students will be involved in include sports programs, quarterly student flyer, concert programs, graduation announcements, elementary certificates, play programs, and various school or community projects as they arise.

Mathematics

Intermediate Algebra**Gr 10****1 credit**

Intermediate Algebra begins with a review of Algebra I topics including linear equations, systems of equations, inequalities and systems of inequalities. Students will then be introduced to Algebra II topics and learn about graphing, factoring, and solving quadratics. The course ends with a unit on Probability and Statistics.

Prerequisite: Algebra I

Algebra 2**Gr 10 - 11****1 credit**

Algebra 2 begins with a review of Algebra I. Following that, students will then learn about quadratic equations, inverse functions, radical equations, exponential functions, and rational relations. The course ends with a unit on sequences and series. Prerequisite: Algebra I

Geometry**Gr 9 – 10****1 credit**

Geometry begins with an introduction of the basic tools of geometry including points, lines, planes, distance, angles, two-dimensional, and three-dimensional figures. Students will learn about reasoning and proof and will be able to prove two triangles are congruent. Students learn and apply the properties of shapes including triangles, quadrilaterals and circles. Students will learn about right triangle trigonometry and use it to find the area of polygons. The course will conclude with a unit of surface area and volume of three-dimensional figures and a unit on probability. Prerequisite: Algebra I

Pre-Calculus**Gr 11 – 12****1 credit**

This course is a detailed study of the mathematics needed for calculus. Concepts are presented and explored from symbolic, graphical, and numerical perspectives. Basic concepts covered include polynomial, rational, exponential, logarithmic, and trigonometric functions, complex numbers, linear systems, numerical patterns, sequences and series. Prerequisites: Algebra 1 & 2 and Geometry

Music

Music Exploration

Gr 9, 10, 11, 12

0.5 credit

Music Exploration is a course open to grades 11-12. In the Music Exploration course, we will be exploring music from its beginnings until present day. The goals of this course are:

- Explore various musical elements: Sound, Harmony, Rhythm, etc
- Explore the broad history of music
- Discover how music has influenced culture, or how culture has influenced music
- Develop critical listening skills
- Develop a deeper sense of music appreciation

This class will include projects, listening assignments/exams, and reading assignments.

Senior High Choir

Gr 9, 10, 11, 12

0.5 credit

Senior High Choir is a course/ensemble open to all students in grades 9-12. One of the main goals of Senior High Choir is to gain a deeper appreciation of music through performing a wide variety of music of different styles, cultures, and from different eras of history. Senior High Choir meets two days per week, and every other Friday.

In Senior High Choir, you will have the opportunity to:

- Develop/Improve musical skills (rhythm, sight-reading, terms, etc.)
- Develop/Improve vocal skills
- Perform as a large group working towards a common goal
- Participate in solo/ensemble contest
- Participate in Chamber Choir
- Develop self-discipline by attending lessons, and participating in class

The Senior High Choir performances consist of:

- 3 Concerts (December, March, May)
- Large Group Contest
- Veterans' Day
- Graduation

Senior High Band

Gr 9, 10, 11, 12

0.5 credit

Senior High Band is a group that seeks to develop advanced musical skills (playing in 5-6 different key signatures, time signatures, extension of range, expressiveness and understanding) by rehearsing and performing a wide variety of music during the year. We perform as soloists, in small groups, and as a large group at concerts and other special events during the year. Senior High Jazz Band and Percussion Ensemble are special before-school groups that are additional opportunities for band students as well as Pep Band and Marching Band. A multi-day trip is taken in each even year as well as small trips in the odd years.

This class is open to any 9th-12th grader. Prior instrument lessons and experience are helpful but not necessary. The group meets two days a week and every other Friday. Our goal is to encourage lifelong music enjoyment and music making in a fun and educationally worthwhile environment.

Physical Education & Health

Physical Education/Health 9

Gr 9

1 credit

The Ninth grade Health curriculum conducted in conjunction with physical education covers the following units: physical, mental, emotional, and social wellness, relationships, body systems, drugs, tobacco, alcohol, diseases, nutrition, safety in the environment, conflict resolution, violence prevention, health and consumer choices, body image, and character. The Physical Education portion provides students with physical fitness training and other activities. The students will receive instruction in the rules, skills, strategies, and teamwork of the following units: soccer, football, handball, Frisbee football, volleyball, Pickleball, badminton, basketball, floor hockey, ragball, tennis, weightlifting, wiffle ball, and dodgeball games with variations. Advanced competition with tournaments is used in this course.

Physical Education/Health 10

Gr 10

1 credit

The Health curriculum involves comprehensive in-depth coverage of the units from Health 9. Students will analyze the influences of media, culture, technology and other factors on their health. Throughout this course healthy choices are discussed and students are encouraged to become advocates of a healthier family, community, etc. Health units include physical, mental, emotional, and social wellness, relationships, First Aid/CPR with certification, body systems, drugs, tobacco, alcohol, disease, nutrition, safety in the environment, conflict resolution, violence prevention, health and consumer choices, body image, and character. During Physical Education, team sports, physical fitness, and various other activities are used to continue skill development. Instruction is given in rules, skills, strategies, and teamwork. Cooperation, leadership, accountability, and advanced competition through tournaments are promoted as well as physical well-being. The units covered include soccer, football, handball, Frisbee football, volleyball, Pickleball, badminton, basketball, floor hockey, ragball, tennis, weightlifting, wiffle ball, and dodgeball games with variations.

Science

Physical Science

Gr 9

1 credit

This course surveys the basics of both chemistry and physics. Students will learn concepts of speed, acceleration, force, work, power, and energy during the physics portion of the year. Atoms, elements, the periodic table, chemical formulas, and chemical reactions will be taught during the chemistry portion of the year. Physical science is a hands on class that allows students to learn these concepts through a variety of investigations, activities, and simulations.

Biology

Gr 10

1 credit

Biology is the study of life. Students will gain knowledge of basic topics in biology. The units covered in this class will include, but are not limited to, ecology, cells, genetics and the human body.

Chemistry**Gr 11-12****1 credit**

Chemistry is the study of matter and its interactions within our world. The class is divided into eight units starting with the periodic table and the elements. Topics then build upon previous concepts as the study progresses through electrons, atomic bonding, chemical reactions, chemical calculations, the study of solutions, and finally acids and bases. Students in chemistry will become familiar with the working of a chemistry lab through frequent investigations and experiments.

Physics/College Physics**Gr 11-12****1 credit**

This physics class focuses on Newtonian (large scale) physics concepts. Students will study the interactions between speed, acceleration, and force variables. They will then apply this knowledge to the concepts of energy, work, and power. Other units in the class cover rotational motion, waves, and electricity. Physics is an in-depth, detail driven class that requires individuals to have a strong background in Algebra and the willingness to collaborate with peers. Eligible students can take this class for college credit through Southwest Minnesota State University (SMSU). They can earn 3 general science lecture credits and 1 general science lab credit for the completion of this class. Prerequisite: C or higher in Algebra II or meet SMSU requirements.

Anatomy**Gr 11 - 12****1 credit**

Anatomy is an introductory study of the structure of the human body. Students will become familiar with the structure of the various body systems. We will also examine the physiology related to the processes of the body and the interdependence between the structure (anatomy) and the function (physiology) of the human body. Students with a special interest in health care fields are encouraged to take this course.

Introduction to Robotics**Gr 11 - 12****.50 credit**

This is a beginning course in robotics. We will be utilizing Lego Mindstorm kits and related software and laboratory materials. The objective of this course is to introduce the student to basic programming as well as problem solving strategies. This course will involve students in the development, building and programming of a LEGO Mindstorm robot. Students will work hands-on in teams to design, build, program their robots and document their progress. Topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems. Student designed robots will be programmed to compete in various challenge courses.

Computer Aided Drafting (CAD)**Gr 11 - 12****.50 credit**

Computer Aided Drafting (CAD) is a project driven course in which students use the Sketchup program to create challenge related designs. It focuses on students' ability to creatively solve problems and create models. An example project is the Sustainable Dwelling project. Students are tasked with designing a small, environmentally sustainable dwelling specific to a biome region. Students have to work within a size constraint for the dwelling as well as design the dwelling to meet the individual demands of various global locations. Another project is the Machine Design. Students propose design modifications to currently utilized technology. They research working components as well as the limitations of the machine. Sketchup is then used to design a new, original machine

Social Studies

Civics (Social 9)

Gr 9

1 credit

This course will provide students with a comprehensive examination of the basic concepts, principles, and applications central to the study of civics. Throughout this course, students will develop an understanding of the American government – how it operates and their relationship to it. The class design informs students, provokes their interest and concern and motivates them to take an active and effective role in our democratic society.

American History/Geography (Social 10)

Gr 10

1 credit

Social 10 is divided into 2 parts, geography and US History. The first semester students learn about the five themes of geography, how to read and label a map, and the geography of the Americas. The history of North America is studied in depth in second semester with an emphasis on the United States prior to 1900.

World History/Geography (Social 11)

Gr 11

1 credit

This course is composed of 1 quarter of world geography and 3 quarters of world history. The continents of Europe, Asia, and Australia are studied in depth. World history is examined from 1900s to the present including World Wars I & II, World Depression, Cold War, Civil Rights movement, the 1970s, 1980s, 1990s, and the 2000s.

Sociology/Economics (Social 12)

Gr 12

1 credit

This course is composed of two quarters (1 semester) of Sociology, and two quarters (1 semester) of Economics. Sociology will focus on the basic concepts and theories of sociology including culture, socialization, social groups and organization, family, and social change. In Economics, students will learn the fundamental concepts of economics, including tables and graphs, to understand and interpret data in order to make informed and reasoned decisions on economics. A virtual stock market game will also be included in the curriculum.

World Languages

Spanish I

Gr 11, 12

1 credit

The student will be exposed to the Spanish Language through an introduction to the fundamentals of all four language skills; reading, writing, listening, and speaking. Special emphasis will be placed on communication through listening activities, oral discussion, and dialogue. In order to take Spanish II, III, or IV a “C” average is highly recommended in the preceding course. This course will be offered over Interactive Television (ITV) where students will have daily interaction with the instructor.

Spanish II

Gr. 12

1 credit

An emphasis will be placed on a review of grammar and composition skills to increase proficiency. We will review vocabulary and introduce some new verb tenses, vocabulary, and grammar. Special emphasis throughout this course will be placed on increasing communicative ability. The students will also view a number of films about historical Hispanic events, discuss, and research them. Prerequisite: Spanish I