Belle Plaine High School Registration Guide
2024 - 2025

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Explore Your Pathway at Belle Plaine Schools

To Belle Plaine Students and Families:

Our goal is to prepare all students to be college and career ready. A key component of this goal is to provide opportunities for students to explore and pinpoint your interests and passions. Belle Plaine High School has organized elective courses into six pathways; Arts & Communications, Business & Entrepreneurship, Engineering & Manufacturing, Health Science, Human Services, and Science & Technology. Students are encouraged to use their Minnesota Career Information System (MCIS) data to guide what pathway fits their future aspirations. By selecting electives based on students' desired pathway, it will allow them the opportunity to be exposed to coursework and experiences related to their desired career.

Overview of the Career Pathways at BPHS

Arts & Communication	Business & Entrepreneurship	Engineering & Manufacturing
• Journalist / Writer • Graphic Designer • Musician / Actor • Radio DJ • Artist • Producer • News Anchor	• Accountant • Financial Planner / Banker • Social Media Marketing • Business Owner • Event Planner • Executive Assistant	• Architect • Construction Worker • Welder • Engineer • Auto Mechanic • Transportation Technologies
Health Sciences	**Human Services**	**Science & Technology**
• Doctor / Nurse • Dentist / Dental Assistant • Trainer / Physical Therapist • Pharmacist / Pharmacy Tech • Massage Therapist • Dietician • Veterinarian	• Teacher / Paraprofessional • Police / Firefighter / Military • Counselor / Social Worker • Hair Stylist / Makeup Artist • Lawyer	• Computer Repair / Software Developer • Eco-Friendly Energy Engineer • Electrician • Lab Technician • Chemist

GENERAL INFORMATION

ACADEMIC POLICIES

Students' register in the spring for the next school year courses. Schedule corrections are only to be completed during the designated window of time, which will be announced each semester. Schedule corrections are only made for the below reasons:

1. Academic Misplacement - This may include such circumstances as being placed in math class where skills are not at the level of instruction or students need certain courses to meet graduation requirements.

2. Computer Error - During the scheduling process a student was placed in the incorrect section of a class or is missing a core class.

3. Empty Class Period - You have no class listed for one or more periods in your schedule.

4. PSEO - You have registered for PSEO class(es) and need to alter your schedule to reflect your PSEO schedule.

Once a semester begins, changes to a schedule are only allowed if a credit deficiency is noticed, a teacher/administrator recommends a change, a student has too many study halls, or an error was made. A course dropped after the first two weeks of each semester will result in students receiving an "F" on their transcript, and they will be placed in a study hall. Students who register for Advanced Placement, Concurrent Enrollment, and College in the Schools classes will not be allowed to drop them after registration. We staff our building for these classes and when students drop them, other classes become too large.

STUDENT COURSE LOAD

To participate in graduation ceremonies, seniors must have completed all graduation requirements. Members of the class of 2016 and beyond must have earned 46 semester credits and completed the requirements outlined by the State of Minnesota regarding graduation tests. Each semester course equals one semester credit and each year long course equals two semester credits.

There are seven class hours per day. If a student selected seven courses each semester for four years, he/she would graduate with fifty-six credits. Most students enroll in six courses per semester, and graduate with forty-eight credits. Students are allowed flexibility to develop a program that meets their individual needs. Whatever course load a student chooses, the forty-six credit minimum must be kept in mind. The maximum course load, or credits allowed in one semester, is seven.

CUMULATIVE GRADE POINT AVERAGE AND HONOR ROLL

Cumulative Grade Point Average (GPA) is calculated beginning in Grade 9 through the end of Grade 12. Every course with a mark of A through F is used in calculating cumulative GPA. Students whose cumulative GPA is 3.85 or above will be recognized at graduation as high honor students. Students with a GPA of 3.5 to 3.85 will be recognized at graduation as honor students.

Each semester after report cards are issued, all students who have achieved a “B” average (3.0) or above for the semester will be listed on the honor roll. To be included, students must earn letter grades in five or more courses and must not have an incomplete, except the second semester of the senior year then a student only is required to have four classes for letter grade. **The numerical representation of grades is demonstrated in the table below.**

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
4.0	3.67	3.33	3.00	2.67	2.33	2.00	1.67	1.33	1.00	0.00	0.00

GRADING FOR LEARNING

The purpose of Grading for Learning is to accurately report academic achievement to students and their families. It allows us to provide clear and accurate communication between school and home as well as with post secondary institutions and employees about the academic skills students possess.

Belle Plaine Senior High School utilizes an 80/20 formula. This formula means that 80% of the work reflected in the grade book will be composed of summative assessments, while 20% of the work reflected in the grade book will be composed of formative assessments. Within the 80/20 formula, a set grading scale is used. The grading scale is as follows.

F	D-	D	D+	C-	C	C+	B-	B+	B	A-	A
0-59	60-62	63-66	67-69	70-72	73-76	77-79	80-82	83-86	87-89	90-92	93-100

GRADUATION REQUIREMENTS

Students in the graduating class of 2016 and beyond must earn 46 credits in grades 9-12 in order to graduate from Belle Plaine High School. All required courses must be taken for an A-F letter grade and may not be taken Pass/Fail. Please refer to the table below to review specific graduation credit requirements.

Graduation Requirements	Credits Needed
English	8
Mathematics	6
Social Studies	8
Science	6
Physical Education	2
Fine Arts	2
Electives	14
Total Credits Required to Graduate	**46**

CORE COURSES TO MEET GRADUATION REQUIREMENTS

ENGLISH *(8 credits)*	9th:	English 9
	10th:	English 10
	11th:	English 11 **OR** University Writing (WRIT1301) **OR** Public Speaking (COMM 102) **OR** Human Diversity (LIT 100) **OR** Global Perspective (LIT 150)
	12th:	Global Literature & Global Communication **OR** English Composition (WRIT 1301) **OR** Public Speaking (CMST102) **OR** Human Diversity (LIT 100) **OR** Global Perspective (LIT 150)
MATHEMATICS *(6 credits)*	Grade Level Varies	Geometry Algebra 2 (Third year of math will vary)
SOCIAL STUDIES *(8 credits)*	9th:	Civics & Human Geography - Class of 2022 and beyond
	10th:	American History
	11th:	World History
	12th:	Political Science **OR** American Government & Economics
SCIENCE *(6 credits)*	9th:	Earth and Space Science
	10th:	Biology
	11th:	Physics by Inquiry **OR** General Chemistry I **OR** Conceptual Chemistry, **OR** Conceptual Physics **OR** General Physics
PHYSICAL EDUCATION *(2 credits)*	Grade Level Varies	Women's Fitness **OR** Sports for Life **OR** Strength Training 1/2 **OR** Team Activities **OR** Unified PE **OR** Personal Fitness **OR** Physical Therapy/Athletic Training
FINE ARTS *(2 credits)*	Grade Level Varies	Includes Music Education, Art Education, Career and Tech Ed, SouthWest Metro Coop courses, and other courses as noted in the Registration Guide.
ELECTIVES *(14 credits)*	Grade Level Varies	Courses will vary. See Registration Guide for course descriptions. **Students who enter high school in the 2024-25 school year or later must complete a Personal Finance course before graduating.**

COLLEGE CREDIT OPPORTUNITIES

Belle Plaine High School offers opportunities for students to potentially earn college credit while attending high school. Concurrent Enrollment and College in the Schools courses present curricula that are the same as courses taught on college campuses; therefore, students must understand they are significantly more difficult than a high school course. At the conclusion of these courses, students may qualify for college credit, so students are expected to think, analyze, and produce at a college level. Additionally, they require significantly more work outside of class than regular high school courses. Therefore, students should consider not only their own academic background and commitment, but also their overall course load, job responsibilities and cocurricular activities when deciding to register for these courses.

POSTSECONDARY ENROLLMENT OPTIONS PROGRAM

Postsecondary Enrollment Options (PSEO) is a program that allows 10th-, 11th- and 12th-grade students to earn both high school and college credit while still in high school, through enrollment in and successful completion of college-level, nonsectarian courses at eligible participating postsecondary institutions. Each participating college or university sets its own requirements for enrollment into the PSEO courses. 11th and 12th-grade students may take PSEO courses on a full- or part-time basis; 10th graders may take one career/technical PSEO course. If they earn at least a grade of C in that class, they may take additional PSEO courses. There is no charge to PSEO students for tuition, books or fees for items that are required to participate in a course. For current information about the PSEO program, visit the Minnesota Department of Education Postsecondary Enrollment Options (PSEO) webpage.

While enrolled in PSEO, students still must meet Belle Plaine's graduation requirements. PSEO courses will be given 1.0 Belle Plaine High School Credit for every 2.0 PSEO credits. The credits and GPA will be placed on the student's high school transcript and the grade will be calculated into their cumulative GPA. The university or college shall also grant credit upon successful course completion. See *PSEO Handbook* for more details.

CONCURRENT ENROLLMENT

In Minnesota, concurrent enrollment courses are college courses offered at the high school, taught by a trained high school teacher. These are offered in partnership with a college or university. Students who successfully complete these courses generate both high school and transcripted college credit from the partnering postsecondary institution. Many people refer to these courses as College in the School. There is no cost to the student to participate in these courses. Click here to view all of Belle Plaine High School Concurrent Enrollment Courses

ARTICULATED COLLEGE CREDIT

Through articulation agreements between Belle Plaine High School and specific two-year colleges in the area, students will be able to earn college credit for certain courses taken in high school. The agreements recognize that skills and competencies are developed through successful completion of specific coursework that is then verified by the high school teacher. To receive credit, students must enter that specific post-secondary institution. These schools vary regarding their policies when students choose to transfer to another school. Students should check with those institutions when they register upon graduation from high school. Follow the link for the most current and updated information at https://ctecreditmn.com.

POST-SECONDARY PREPARATION

Students should register for classes that satisfy entrance requirements for their specific colleges. Requirements vary. Students and parents should become familiar with the entrance requirements of colleges to which they wish to apply. This can be accomplished in several ways: Meet with admissions representatives when they are scheduled at school; Call or email colleges directly; Check the college website.

COMMUNITY COLLEGES

Admission to the college does not automatically qualify a student for all courses and programs. Students' abilities in reading, writing, and math must be assessed before registering for classes. Some specialized career programs such as Dental Hygiene, Nursing, Radiologic Technology, Automotive and others are competitively based and have additional academic and application requirements. The general requirement to enter a community college is a high school diploma or GED. Normandale, Inver Hills, and Century College are examples of Community Colleges.

TECHNICAL COLLEGES

Most jobs require technical skills, and the explosion of new technology calls for a highly trained workforce. Technical colleges work closely with businesses to offer this advanced professional training. Prior to registering for courses, students may be required to take the Accuplacer, a standardized assessment of a student's reading, sentence and arithmetic skills. Test results help students select courses while allowing staff to develop appropriate plans for a student's academic support. Applicants who took rigorous high school courses are likely to test into more advanced courses thereby moving them more quickly through course requirements. Students are advised to check with specific programs in advance due to the possibility of waiting lists. The general tech college requirements are a high school diploma or GED. Examples include Dakota County and Hennepin County Technical College.

FOUR-YEAR COLLEGES AND UNIVERSITIES

The following minimum courses are highly recommended for admission:

- Four years of English, including Composition and Literature
- Four years of Mathematics, including two years of algebra and one year of Geometry (PreCalculus is strongly advised)
- Three years of Science, including one year of a Biology and one year of Chemistry or Physics
- Two years of a single World Language (Two years required by most universities)
- Four years of Social Studies, including US History and Geography
- One year of visual and/or performing arts (Art or Music classes)

**Please note that individual university requirements may differ.

CORE COURSE OPTIONS

ENGLISH

English 9
Grade Level: 9
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Description: English 9 is designed to review and strengthen the five language skills of reading, writing, speaking, listening and thinking. Students will read contemporary and classic texts including novels, poetry, drama, short stories and informational text that reflect diverse voices and perspectives.

English 10
Grade Level: 10
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Description: The theme for English 10 is tolerance. This is woven into our lessons as well as our daily classroom atmosphere. "Tolerance is respect, acceptance and appreciation of the rich diversity of our world's cultures, our forms of expression and ways of being human. Tolerance is harmony in difference." We will be focussing on speech communications, the novel, essay writing, research skills, and film history and exploration.

English 11
Grade Level: 11
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Description: This is a general English course for all Juniors. Students will focus primarily on reading and writing skills centered around American Literature fiction and nonfiction. Essays include literary analysis, creative writing, argumentative research and personal narrative. Students will be asked to participate in class discussions while completing work both online and in class.

Global Communications
Grade Level: 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: This is a semester-long course designed to address a wide variety of communication skills relevant to success in a global 21st century society. Students will be required to actively participate in activities and lessons geared toward written and verbal communications.

Global Literature

Grade Level: 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: Global Literature is a semester-long course designed to enhance students' literacy skills by reading, analyzing, and responding to texts written by authors throughout the world. From ancient to modern texts, students will analyze historical impact on texts and authors, as well as analyze thematic development throughout texts and genres.

University Writing (WRIT 1301)

Grade Levels: 12
Length / Credits: 1 Semester / 1 High School / 4 College Credits
Prerequisites: Must apply and be accepted into post-secondary institution, be in the top 20% of class at the end of sophomore/junior year, & upon English Department review
Class Size: Limit of 24 students
Concurrent Enrollment: University of Minnesota
Description: This University of Minnesota College in Schools college-level course is for mature, highly motivated juniors and seniors. Its purpose is to enable students to write prose of sufficient richness, clarity, and complexity to communicate effectively with mature readers. The entire semester will focus on the writing process. Students will be able to demonstrate and practice strategies for idea generation, audience analysis, organization of texts, drafting, evaluation of drafts, revision, and editing; write papers of varying lengths that demonstrate effective explanation, analysis, and argumentation; become experienced in computer-assisted writing and research, locate and evaluate materials and other sources; analyze and synthesize source material, making appropriate use of paraphrase, summary, quotation, and citation conventions; employ syntax and usage appropriate to academic writing and the professional world.

Public Speaking (COMM 102)

Grade Levels: 12
Length / Credits: 1 Semester / 1.5 High School / 3 College Credits
Prerequisites: Must apply and be accepted into post-secondary institution, be in the top 20% of class at the end of sophomore/junior year, & upon English Department review
Class Size: Limit of 24 students
Concurrent Enrollment: Minnesota State University, Mankato
Description: This Minnesota State University, Mankato concurrent enrollment college-level course is an introductory course in the theory and practice of public speaking, with the emphasis on the speaker-audience relationship. This CC course in Communication Studies is for mature, highly motivated juniors and seniors. Skills include analyzing the speaking situation, choosing appropriate topics, conducting research,organizing ideas, utilizing evidence, delivering speeches effectively, and developing the ability to critically listen. Styles will range from discussion, to informative/persuasive research based speech, to special occasion and interpretative speech. Communication principles and delivery fundamentals will be stressed.

Literature: Human Diversity (LIT 100)

Grade Levels: 11, 12
Length / Credits: 1 Semester / 1.5 High School / 3 College Credits
Prerequisites: Must apply and be accepted into post-secondary institution, be in the top 20% of class at the end of sophomore/junior year, & upon English Department review
Class Size: Limit of 24 students
Concurrent Enrollment: Southwest Minnesota State University
Description: This course introduces students to multicultural literature primarily in the U.S. Students read works that explore a range of socio-cultural identities or experiences, such as race, ethnicity, class, gender, sexuality, and disability.

Literature: Global Perspective (LIT 150)

Grade Levels: 11, 12
Length / Credits: 1 Semester / 1.5 High School / 3 College Credits
Prerequisites: Must apply and be accepted into post-secondary institution, be in the top 20% of class at the end of sophomore/junior year, & upon English Department review
Class Size: Limit of 24 students
Concurrent Enrollment: Southwest Minnesota State University
Description: This course is an introduction to literature through the study of works past and present which explore both the nature of humanity and humanity's relation to the world. The course will introduce students to literature from primarily outside the United States to enable cross-cultural comparisons.

MATHEMATICS

Quadratic Algebra

Grade Levels: 8, 9
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Description: Quadratic Algebra will utilize the CPM curriculum that is currently used in grades 6-8. Quadratic Algebra will use the properties of the real number system. It will focus on a review of linear equations and solving systems of equalities and inequalities. Emphasis is placed on solving equations and inequalities with one or more variables. This course will include polynomials, their simplification, factoring, and solving quadratic equations.

Geometry

Grade Levels: 8, 9, 10
Length / Credits: Full Year / 2 Credits
Prerequisite: Quadratic Algebra
Description: Geometry will utilize the CPM curriculum. Students will use the algebra learned in previous years to investigate the properties of Geometric Shapes. The focus will mostly be on the building blocks of geometry: points, lines, and planes. The course will also help students improve logical conclusions by exploring deductive and inductive reasoning. This course will include an introduction to trigonometry.

Algebra II

Grade Levels: 10, 11
Length / Credits: Full Year / 2 Credits
Prerequisites: Quadratic Algebra & Geometry
Description: Algebra II will utilize the CPM curriculum. Students will review algebra, linear equations, and solving systems of equalities and inequalities. It will focus on using matrices, graphing conic sections, and studying quadratic and polynomial functions. Topics also covered will include similarity, sequences and series, trigonometry, and probability and statistics.

Advanced Algebra II

Grade Levels: 9, 10, 11
Length / Credits: Full Year / 2 Credits
Prerequisite: For students on the advanced math track
Description: Advanced Algebra II will utilize the CPM curriculum. Students will review algebra, linear equations, and solving systems of equalities and inequalities. It will focus on using matrices, graphing conic sections, and studying quadratic and polynomial functions. Topics also covered will include similarity, sequences and series, trigonometry, and probability and statistics. The course is designed to cover the topics of Quadratic Algebra and Algebra II in one course.

Math Applications - Algebra III

Grade Level: 12
Length / Credits: Full Year / 2 Credits
Prerequisite: Algebra II (students who have taken Pre-Calculus are not allowed to take this course unless it is teacher approved).
Description: This course is designed for students in their senior year who are planning on going to a 2-year college or military bound. Emphasis will be placed on preparing students for the Accuplacer and ASVAB assessments. Students will be expected to do both online and book activities in order to get the feedback necessary to improve their scores and prepare themselves for college level math courses.

Pre-Calculus

Grade Levels: 10, 11, 12
Length / Credits: Full Year / 2 Credits
Prerequisite: Advanced Algebra II or instructor approval
Description: Precalculus is an upper-level math course designed to prepare students for calculus. Pre-Calc will utilize the CPM curriculum. Mathematical concepts are presented numerically, graphically, algebraically and verbally. Course content includes the study of: power, polynomial, rational, exponential, logarithmic, and trigonometric functions as well as conics, vectors, polar coordinates, complex numbers, and a preview of limits and derivatives. *TI-83+ calculator or similar is strongly recommended.*

College Algebra (CI 1806)

Grade Levels: 11, 12
Length / Credits: Full Year / 2 High School & 3 College Credits
Prerequisite: Full year of Algebra II, Advanced Algebra II, or Pre-Calc.(C+ or higher) & Instructor Approval, Top 50% of class
Concurrent Enrollment: University of Minnesota
Class Size: Limit of 35 students
Description:CI 1806 is a capstone algebra course taught through the University of Minnesota and may be suitable for replacing a high school algebra III course. It introduces students to the art of mathematical prediction through algebraic modeling and elementary probability theory. The class covers techniques of representing the behavior of real-world data with algebraic equations, including linear, polynomial, exponential and logarithmic functions. Students also learn basic probability theory including counting methods and conditional probability. The class emphasizes the use of traditional algebraic methods and technologies such as graphing calculators and Excel spreadsheets to find equations that accurately represent the behavior of real-world data. The emphasis on real-world problem-solving applications, delivered through nontraditional teaching methods, creates a challenging class in which students compare and evaluate mathematical arguments on a daily basis. Students improve their ability to communicate and evaluate mathematical reasoning.
This course is appropriate for students who want to pursue college majors or careers in math or science, but are unsure of their math, writing, or science skills. It is also appropriate for students who are certain that they do not want to pursue college majors or careers in math or science.

Calculus (MATH 1371)

Grade Levels: 11, 12
Length / Credits: Full Year / 2 High School & 4 College Credits
Prerequisite: Earned an A or A- in Precalculus & Instructor Approval
Concurrent Enrollment: University of Minnesota
Class Size: Limit of 25 students
Description: Students taking Calculus must be comfortable with most high school algebra, geometry, and trigonometry. The topics which are covered center around the definition and application of the derivative, antiderivative and integral. Most of these applications are on functions from algebra, geometry and trigonometry. Moreover a student wishing to receive college credit must have an average grade of an B+ or better to enroll at the University of Minnesota.

Basic & Applied Statistics (EPSY 3264)

Grade Levels: 11, 12
Length / Credits: Full Year / 2 High School & 3 College Credits
Prerequisite: Full year of Algebra II (B+ or higher) or Advanced Algebra II & Instructor Approval
Concurrent Enrollment: University of Minnesota
Class Size: Limit of 25 students
Description: A U of M Introductory statistics course. Emphasizes understanding and applying statistical concepts and procedures. Visual and quantitative methods for presenting and analyzing data, common descriptive indices for univariate and bivariate data.

SOCIAL STUDIES

Civics
Grade Level: 9
Length / Credits: 1 Semester / 1 Credit / Fall Semester
Prerequisite: None
Description: Civics is a semester long course required of all 9th graders. This class is a wide scope class where students are exposed to qualities, characteristics, and requirements of citizens. Important documents are highlighted, including the Declaration of Independence, the Bill of Rights, and the Constitution. The focus is on the federal government, with exposure to the amendments, naturalization, branches of government, and current leaders. Current developments with governmental issues are a keystone for the study of civics. Students will be tested on a Citizenship test mandated by the State.

Human Geography
Grade Level: 9
Length / Credits: 1 Semester / 1 Credit / Spring Semester
Prerequisite: None
Description: In this course we will take a deeper look at geographic themes that take a different approach than 8th grade. Some of the topics that will be covered are: five themes of geography, map skills, urban planning, trade, green revolution, population distribution, cultural diffusion, and production and consumption.

American History
Grade Level: 10
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Description: In this class, we start where students left off in 7th grade, after the Civil War. This course aims to not only show the presidents and leaders of the time but also the everyday American experience of the average citizen through primary source analysis. Students will hear multiple perspectives of voices that are often left out in history to fully understand our American landscape and how we have gotten to where we are today.

World History
Grade Level: 11
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Description: The course will explore the common challenges and experiences that unite the human past, as well as global patterns over time from Prehistory to present through the theme of SPICE. Large emphasis 1st semester focuses on ancient civilizations of the Eastern hemisphere and their development for power. Second semester focuses on imperialization throughout the world to the world wars and the global consequences surrounding them. This course does this by examining primary documents around the world, analyzing maps, writing comprehension and note taking to show understanding in content throughout the year.

American Government

Grade Level: 12
Length / Credits: 1 Semester / Fall Semester / 1 Credit
Prerequisite: None
Description: American Government is a more in depth course for seniors. It starts with a focus on the Bill of Rights and the three branches of government. We then analyze topics that students will use in their adult lives such as Voting, Elections, Media, and Interest Groups. It ends with a specific look at local government and then a global view of foreign policy.

Political Science (POL 111)

Grade Level: 12
Length / Credits: 1 Semester / Fall Semester / 1 High School & 3 College Credits
Prerequisites: Must apply and be accepted into post-secondary institution & be in the top 20% of class at the end of junior year or have an ACT Composite Score of 21 or higher
Concurrent Enrollment: Minnesota State University, Mankato
Description: This class surveys the foundations of American government, executive, legislative, and judicial branches of the national government, the role of political parties, interest groups, and public opinion. The class includes discussions and debates on current events and topics.

Economics

Grade Level: 12
Length / Credits: 1 Semester / 1 Credit / Spring Semester
Prerequisite: None
Description: Economics will cover various topics including scarcity, supply and demand, the four factors of production, business organization, and taxes and government spending. It also includes a competitive Shark Tank project that ties together many different concepts from the semester. This course focuses on personal finance and literacy weekly to set students up for their adult life.

SCIENCE

Earth and Space Science

Grade Level: 9
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Description: Earth and Space Science offers a focused curriculum that explores Earth's composition, structure, processes, and history; its atmosphere and its environment in space. Course topics include an exploration of the major cycles that affect every aspect of life, including weather, climate, air movement, tectonics, volcanic eruptions, rocks, minerals, geologic history, Earth's environment, sustainability, and energy resources.

Biology

Grade Level: 10
Length / Credits: Full Year / 2 Credits
Prerequisite: Physical Science
Description: Biology is the study of life. Many topics related to living systems will be covered. They are: (1) Cell structure, function and basic biochemistry, (2) Plant structure and function, (3) Animal structure and function, (4) basic animal reproduction in all living organisms, (5) Heredity and (6) Evolution.

Conceptual Chemistry

Grade Levels: 11, 12
Length / Credits: Full Year / 2 Credits
Prerequisites: Physical Science & Biology
Description: Conceptual Chemistry is a chemistry class that looks at real world problems and how science, mainly chemistry, is used to find information, and solutions to the problems addressed. The topics of discussion include: matter, the atom, the periodic table, covalent, ionic compounds and chemical equations. A hands-on, lab intensive approach is taken in this class. Conceptual Chemistry will be delivered in a blended format.

Conceptual Physics

Grade Levels: 11, 12
Length / Credits: Full Year / 2 Credits
Prerequisites: Physical Science & Biology
Description: Conceptual Physics engages students with analogies and imagery from real-world situations to build a strong conceptual understanding of physical principles in classical mechanics. With this strong conceptual foundation, students are equipped to understand the equations and formulas of physics and will also be able to make connections between the concepts of physics and their everyday world. Portions of this class will be delivered in an inquiry format.

General Chemistry 231/231L

Grade Levels: 11, 12
Length / Credits: Full Year / 2 High School & 4 College Credits
Prerequisites: Physical Science, Biology, & Geometry (must have completed with a "C" average or better). Must apply and be accepted into a post-secondary institution. Juniors should be in the top 20% of their class rank and seniors in the top 50% of their class rank.
Concurrent Enrollment: Southwest Minnesota State University, Marshall
Description: General Chemistry I is the first semester college chemistry course appropriate for chemistry, biology and other science majors including pre-medical and other medical-related pre-professional students.
Chemistry is the study of matter and the changes it undergoes. This course will require a good understanding of algebra. Labs and lab write-ups are required. Some of the major topics covered are: writing and balancing chemical reactions/equations, chemical bonds, thermal chemistry, gas laws and stoichiometry.

General Chemistry 232/232L

Grade Levels: 11, 12
Length / Credits: Full Year / 2 High School & 4 College Credits
Prerequisites: General Chemistry 231/231L Must apply and be accepted into a post-secondary institution. Juniors should be in the top 20% of their class rank and seniors in the top 50% of their class rank.
Concurrent Enrollment: Southwest Minnesota State University, Marshall
Description: This course is the continuation of General Chemistry I. The second of the two-semester sequence of General Chemistry is the first college chemistry course appropriate for chemistry, biology and other science majors including pre-medical and other medical-related pre-professional students. Chemistry is the study of matter and the changes it undergoes. This course will require a good understanding of algebra. Labs and lab write-ups are required. Some of the major topics covered are: Intermolecular forces, Solution properties, Chemical kinetics, Equilibrium

Introductory Physics 120

Grade Levels: 11,12
Length / Credits: Full Year / 2 Credits & 4 College Credits
Prerequisites: Algebra II (or more advanced math) and must have completed with a "B" Average or better. Must apply and be accepted into a post-secondary institution. Juniors should be in the top 20% of their class rank and seniors in the top 50% of their class rank.
Corequisite (taken at the same time): Pre-Calculus or Calculus
Concurrent Enrollment: Southwest Minnesota State University, Marshall
Description: Physics is the study of everyday phenomena. This course will require a good understanding of algebra. Labs and lab reports are required. Some of the major topics covered are: mechanics, forces, energy & work. This course is designed to give any student planning for a career in science or medicine a strong and confident knowledge of physics.

Physics by Inquiry (CI 1563)

Grade Levels: 11,12
Length / Credits: 1 semester/ 2 High School Credit & 4 College Credits
Prerequisites: Must apply and be accepted into a post-secondary institution. Juniors should be in the top 20% of their class rank and seniors in the top 50% of their class rank.
Corequisite (taken at the same time): Algebra II, Pre-Calculus or Calculus
Concurrent Enrollment: University of Minnesota, Minneapolis
Class Size: 24 students
Description: The goal of CI 1563 is to help students create their own understanding of some fundamental concepts in physics by working in a way similar to scientists. Students will work in small groups to perform experiments and to create explanatory theories for how things work. This process of making qualitative and quantitative observations of experiments, analyzing the data, developing predictive models, discussing the results with peers, and conducting further experiments to refine the models is the essence of what scientists do.

CC Biology- Our Natural World (BIOL 100)

Grade Levels: 11, 12
Length / Credits: 1 Semester / 2 High School & 4 College Credits
Prerequisites: Biology. Must apply and be accepted into a post-secondary institution. Juniors should be in the top 20% of their class rank and seniors in the top 50% of their class rank.
Concurrent Enrollment: Minnesota State University, Mankato
Description: Concurrent Biology (Bio 100) is an entry college level course designed to satisfy general education requirements for college students. The course focuses on basic biological principles with special emphasis on the human species. Topics include biodiversity, human and social aspects of biology, ecology, cellular processes and function, human reproduction, prenatal development and heredity.

PHYSICAL EDUCATION

Sports for Life

Grade Levels: 9, 10
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: Sports for Life will combine both team sports, individual sports, and personal fitness into one semester. Activities include flag football, archery, soccer, lacrosse, volleyball, badminton, pickleball, floor hockey, basketball, and weight room introduction.

Women's Fitness

Grade Levels: 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: An introductory fitness class solely for women. The goal of this course is to introduce you to a variety of different types of exercise that will improve your overall strength and conditioning. Examples of workouts include; tabata, circuit training in the weight room, barre, zumba, pilates, yoga, and kettlebells. Other nutritional topics will also be covered throughout the semester.

Personal Fitness & Nutrition

Grade Levels: 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: This course is designed specifically for students who are interested in furthering their personal fitness levels while also putting more emphasis on nutrition and developing a healthy eating plan. This class will split time between the weight room, gym and the classroom. The Nutrition side of this course will examine an understanding of today's food and eating trends and will give students the capacity to intelligently evaluate all available sources of nutrition information and make informed decisions. Food labs will also be a part of the curriculum. In addition, more time will be spent developing individual programs that best fit your fitness needs.

Intro to Strength Training

Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: In this class, male or female students will be introduced to the weight room and various strength training programs. Students will learn how the equipment works, how to correctly and safely perform lifts and exercises, and will learn what exercises target specific muscle groups. The instructor will develop a personalized program for the students to follow that will include strength training, agility, and plyometric.

Strength Training II
Grade Levels: 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: Intro to Strength Training
Description: This course is for male or female students that would like to develop a more intensive strength training/personal fitness program. The instructor provides several different lifting/fitness programs and students can decide which program best fits their individual needs.

Team Activities
Grade Levels: 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: Team activities that will be covered include flag football, soccer, lacrosse, volleyball, basketball, floor hockey, and large group invasion games such as, badminton, pickleball, archery, table tennis, and frisbee golf.

Unified Physical Education
Grade Levels: 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: This course is designed for students who are thinking about a career in education and/or sports. The class will give you the opportunity to work alongside students with disabilities. You will be required to guide these students in various physical activities, goal setting activities, and individualized fitness programs.

Intro to Sports Officiating
Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Course fees: $30
Description: This course contains web-based instructional models, combined with interactives and activities to understand the mechanics and philosophy of officiating with the support and guidance of one of our staff members. Students will have the opportunity to be certified in 3 different sports (2 required and one choice.) Students will put what they learned into action by participating in practice/scrimmage settings (similar to a micro-internship.

FINE ARTS

Bella Voce (Soprano & Alto)

Grade Levels: 9, 10
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Meets Fine Arts Requirement!
Description: Bella Voce is a treble voice choir. Any soprano/alto singer is welcome to join without an audition. Emphasis will be on preparing students to enter our advanced concert choir and auditioned chamber singers group. The focus of this course will be on developing basic vocal techniques, music theory, sight-reading and ear training. Students will practice vocal technique in a variety of modern and classical songs. Song choices will be determined by both student and director input.

Bellators (Tenor & Bass)

Grade Levels: 9, 10
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Meets Fine Arts Requirement!
Description: Bellators is open to all tenor/bass voices without an audition or experience needed. Emphasis will be on preparing students to enter our advanced concert choir and auditioned chamber singers group. The focus of this course will be on developing basic vocal techniques, music theory, sight-reading and ear training. Students will practice vocal technique in a variety of modern and classical songs. Song choices will be determined by both student and director input.

Concert Choir

Grade Levels: 11, 12
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Meets Fine Arts Requirement!
Description: Concert Choir is an advanced mixed choral ensemble. Students will learn to sing with a large ensemble and have the opportunity to tour every other year. Instruction will consist of music theory, sight reading, and proper vocal technique. Students will practice vocal technique in a variety of modern and classical songs. Song choices will be determined by both student and director input.

Concert Band

Grade Levels: 9, 10, 11, 12
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Meets Fine Arts Requirement!
Description: This band is made up of 9-12 grade students that have had three years or more years of experience. Permission for entrance into this group is at the director's discretion if you have less than three years of experience. Pep band is a requirement of the group - absences due to other sporting or club events are allowed. *Evening and weekend performances are a requirement of this course.

WORLD LANGUAGES

Spanish I

Grade Levels: 9, 10, 11, 12
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Description: This introductory course is designed for students with little or no previous study of Spanish. This course teaches basic language patterns with high frequency vocabulary. Repetition and comprehensible input are important components of this course. Culture is an integral part of the course and is introduced through the use of media, games, adapted readings and class discussions. Class work assignments reinforce concepts/skills introduced and explored in class, which enable students to participate in class in a meaningful way.

Spanish II

Grade Levels: 10, 11, 12
Length / Credits: Full Year / 2 Credits
Prerequisite: Minimum of a C or better in Spanish I
Description: Students continue to further develop proficiency and improve language skills. Emphasis is placed on comprehension of Spanish, as well as reading and writing practice in the target language using a variety of activities incorporating familiar vocabulary and high frequency structures. Supplementary materials are introduced to enhance language use. Aspects of contemporary Spanish culture are introduced through the use of media, games, and adapted readings. Class work assignments are an integral part of this course as they not only reinforce concepts and skills that are introduced in class, but also enable students to participate in class discussions.

Spanish III

Grade Levels: 11, 12
Length / Credits: Full Year / 2 Credits
Prerequisite: Minimum of a C or better in Spanish II
Description: The course presents new vocabulary and grammatical concepts in context while providing students with ample opportunities to review and expand upon the material they have learned previously. Students continue to work towards proficiency by reading and listening to authentic materials from newspapers, magazines, and television. The content is focused on contemporary and relevant topics. The material engages students as they improve their command of Spanish.

Spanish IV

Grade Levels: 12
Length / Credits: Full Year / 2 Credits
Prerequisite: Minimum of a C or better in Spanish III
Description: With more and more Spanish-speaking people living in the United States every year, learning Spanish is becoming more important. Adding Spanish skills to your resume can open doors to new job opportunities. The fourth year of Spanish builds on skills learned in the first three years. Students will continue to sharpen listening, speaking, reading and writing skills through activities based on pedagogically proven methods of foreign language instruction. Grammatical concepts are reviewed and acquired contextually via comprehensible input activities.

Arts & Communication Pathway

Related Careers: *Art Directors, Curator, Stage Manager, Museum and Exhibit Manager, Director, Performer (Musician, Actor), Music Directors and Composers, Audio and Video Technician, Sound Engineer, Producers and Directors, Editors, Writers and Authors, Public Relations and Fundraising Manager, News and Print Media, Journalist, Multimedia Artists and Animators, Interior Designers, Artist and Art Marketer, Graphic Designers.*

Theatre Lab I, II, III, IV

Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Course Fee: 30.00
Meets Fine Arts Requirement!
Description: This course is open to grades 9-12. It is designed to be an exploration of Theatre Arts. Over the courses various units explored include: Theatre in a Nutshell, Stage Makeup, Acting, Costume Design, Prop Making, Stage Movement, Careers in Theatre, and Directing. This course is designed to work on the performance **and** technical aspects of theatre. You will get to use hands-on techniques to help with the current Theatrical Production in addition to your normal class projects. This class will have a course fee of $30 to pay for individual materials as needed. This class is designed to be taken multiple times as desired.

Drawing & Painting I

Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Meets Fine Arts Requirement!
Description: This semester-long course is an introduction to the properties, processes and techniques of drawing and painting. Students will start by exploring drawing with historic and modern tools. From there they will build on what they've learned through the study of acrylic and watercolor paints. Students will experiment with line, texture, color to discover their interests in representation and expression. Students will work from varied life sources and the imagination by creating still life, self-portrait, landscape and abstract drawings and paintings. Having the skill to draw from observation is recommended.

Drawing & Painting II

Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: Drawing & Painting I
Meets Fine Arts Requirement!
Description: In this course you will continue to build on techniques and ideas discovered in Drawing & Painting I. Students will have the opportunity to develop even more personal forms of art-making.

Ceramics I

Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Meets Fine Arts Requirement!
Description: This introductory course is designed to explore the numerous techniques for creating functional and sculptural objects with clay. Methods covered may include pinch, coil, slab, mold, carving, modeling, extruding and wheel throwing through to the final step of glazing. Requirements will also include the loading of bisque and glaze fires, the reconstitution of clay, utilization of a sketchbook and the exhibition of work. To take an advanced level course the student must have completed this course with a satisfactory grade and have permission from the instructor.

Ceramics II

Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: Ceramics I
Meets Fine Arts Requirement!
Description: This course utilizes skills developed in Ceramics I to create larger, and more challenging and complex work. Styles will vary from realism to abstraction with a variety of subjects explored. Both fine art and craft (functional) problems will be explored. Some studio work will be based on student directed studies.

Fiber, Fabrics and Fashion Arts

Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester/ 1 Credit
Prerequisite: None
Meets Fine Arts Requirements!
Description: This course will introduce students to the use of fiber and textile media and techniques in the creation of art and fashion in both 2-dimensional and 3-dimensional works. Traditional and experimental materials will be used while students develop skills and cultivate concepts in creating their own individual pieces. Processes may include (but aren't limited to) weaving, fabric painting, screen printing, batik, tie-dye, crochet, knitting, felting, embroidery, and sewing.

Yearbook

Grade Levels: 10, 11, 12
Length / Credits: Full Year / 2 Credits
Prerequisite: Semester of Graphic Design and/or Exploring Computer Science
Meets Fine Arts Requirement!
Description: This class is focused on creating the yearbook. Proficiency in writing and willingness to explore photography and graphic design are required. Attendance at many student and district events is necessary. Students develop abilities in gathering information, writing captions, understanding the components of quality photography, editing skills, and techniques in writing headlines. Students are introduced to and begin to develop skills in the use of various publishing techniques using Pictavo, Photoshop and other standard online and

offline software programs. Students are required to participate in an advertising sales campaign. Emphasis is placed on developing skills in design, graphics and teamwork.
2nd year student expectations: This course is for second year students who continue to develop their journalism skills. Students are encouraged to assume a leadership role by holding an editorial staff position. Advanced students assume greater responsibility for the publication's planning and production. Students are required to participate in an advertising sales campaign.
3rd year student expectations: Students in this course must hold an editorial-in-chief position on staff in which they participate in all aspects of yearbook production. Students in this course develop advanced skills in design, planning and editing of spreads. Students will lead the development, production and business issues concerning the publication.

Digital Music

Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Meets Fine Arts Requirement!
Description: Take your passion for listening to or playing music and bring them into a digital environment. Learn about the audio engineering profession and try your hand and make music without ever needing to touch an instrument.

Photography

Grade Levels: 11, 12
Length / Credits: 1 Semester/ 1 Credit
Prerequisite: None
Meets Fine Arts Requirements!
Description: Students taking this course will learn the ins and outs of photography including building an understanding of camera use as well as photo editing and manipulation. A variety of photo editing programs will be used as well as different camera types.

Media Arts

Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: Exploring Computer Science
Meets Fine Arts Requirement!
Description: This course will be looking into the different types of Media Arts including the 5 types of Animation as well as Film and Video development. Students will get an introduction to a variety of programs such as Adobe After Effects and FlipaClip. Beyond filming their movies and creating the frames for their animations, students will develop skills in storyboarding, sound techniques, and the different uses of Media Art beyond the classroom.

Podcast Creation and Design

Grade Levels: 9,10,11,12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Meets Fine Arts Requirement!
Description: This comprehensive course is designed for individuals interested in mastering the art and science of podcast creation and design. Whether you are a novice looking to start your own podcast or a seasoned content creator aiming to enhance your podcasting skills, this course covers everything from conceptualization to production and distribution. By the end of this course, participants will have the knowledge and skills to plan, produce, and promote a successful podcast. Whether your goal is to share your passion, build a brand, or generate income, this course provides a solid foundation for podcast creation and design.

Communication Technology

Grade Levels: 9,10,11,12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Meets Fine Arts Requirement!
Description: Do you enjoy watching videos, reels and or tik toks etc? Do you enjoy listening to the radio or your playlist? In this course students will use technical equipment and programs to create their own video's and radio content. T.V. and Radio production will be studied all while being creative with your content. Your work can be aired on our youtube channel, Eye of the Tiger - Belle Plaine. There will be both individual assignments/projects as well as small group work.

Graphic Design

Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: Exploring Computer Science
Meets Fine Arts Requirement!
Description: Use various software to create works of purposeful art that can be for your personal collection, used on social media, in advertising and more. We will apply artistic concepts and bring them to life using software such as Photoshop, Illustrator and more.

Business & Entrepreneurship Pathway

Related Careers: *Accountant, Bookkeeper, Actuary, Insurance Underwriters, Loan Officer, Financial Planner, Tax Preparer, Venture Capitalist, Small Business Owner, Entrepreneur, Business Analysts, Office Manager, Supply Chain Manager, Hotel Management, Event Planner, Tour Operator, Food and Beverage Manager, Executive Chef, Sous Chef, Restaurant Owner, Market Research Analysts, Recruiters, Social Media Marketing Manager, Sales Representatives & Retail Managers, Fundraiser, Media Buyer*
Core Classes Required or Encouraged: Pre-Calculus, Calculus, Basic & Applied Statistics, Chemistry, Physics.

Ag Econ

Grade Level: 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Meets State Econ Requirements
Description: This course is designed to meet the State Economics requirements through the lens of Agriculture, Food and Natural Resources. Students will begin to understand and identify the core concepts within the American economic systems as it pertains to the food that is grown and ends up on their dinner table. Agribusiness and Economics will cover topics including scarcity, supply and demand, the factors of production, business organization and taxes. Students will complete a Greenhouse Sale Management Project throughout the semester that will build on topics covered in class. This class (if in FFA and on the Farm Committee) can also be used for an FFA SAE (if not on the Farm Committee can be used for application only), helping students earn degrees in FFA, and scholarships.

Accounting I

Grade Levels: 9, 10, 11, 12
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Description: Students will take a look at how to run a partnership, sole proprietorship and corporation. Students will learn the similarities and differences in the accounting process for each. Students will learn the key accounting terms and concepts and how to use them in the correct situations. During the class students will work on Business Simulations, giving them a hands-on approach of how bookkeeping is done.

Accounting II and III **(Independent Study)**

Grade Levels: 10, 11, 12
Length / Credits: Full Year / 2 Credits
Prerequisite: Accounting I
Description: Students will continue to expand their knowledge of accounting. In this class students will look into Voucher Systems, how departmentalized accounting works and get a better understanding of corporate accounting.

Sports and Entertainment Marketing

Grade Levels: 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: In this class students will explore how the world of sports and money meet and what drives the sports worlds. Students will learn the steps involved in developing an idea into a reality. Students will be expected to be up to date on the sports and entertainment worlds. This class is for those that may see themselves chasing a career in the sports and business world.

Personal Finance

Grade Levels: 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: Students will learn the skills needed to live and operate on their own. Students will take a look at how to invest money, build their credit score, get a loan for a home or car. Then the world of insurance will be discovered. This class will give the students an opportunity to learn what it takes to live on their own, and what type of finances they will need to live the life they want.

Introduction to Business

Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: This course provides the knowledge and skills students need for careers in business and marketing. Students begin exploring roles and functions that business and marketing play in a global society, develop an understanding of the marketplace, as well as understanding product placement and promotion. Students analyze the impact of government, legal systems, and organized labor on business; develop an understanding of business communications and management; and explore legal, ethical, and financial issues in business and marketing.

Business Law

Grade Levels: 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: Intro to Business or Accounting 1
Description: Students will learn about the American legal system. This course explores the legal environment in which businesses operate and the critical interaction between business and the legal system. Students will examine various areas of the law which are critical to the operation of the business enterprises today.

Work Program

Grade Level: 11, 12
Length / Credits: 1 Semester or Full Year / 1 or 2 Credits
Prerequisite: Must work at least 15 hours per week
Description: Students may earn one credit each semester by participation in a cooperative work experience. Seniors may be released up to two hours/day provided they continue to meet the program's requirements. Monthly paperwork will be required on scheduled dates. Meeting these deadlines along with a teacher evaluation will determine the grade for this class.

Engineering & Manufacturing Pathway

Related Careers: *Aircraft Mechanic, Aeronautic Engineer, Architect, Building Engineer, Civil Engineer, CNC Machinist, Computer Control Programmer/Operator, Design Electrical Engineer, Engineer, Electrician, Entrepreneur, HVAC Controller, Industrial Engineer, Machinists, Manufacturing Mechanical Engineer, Process Engineer, Packaging Engineer, Process Engineer, Robot Technician, Quality Engineer, Structural Engineer, Tool and Die Maker, Welder.*
Core Classes Required or Encouraged: Pre-Calculus, Calculus, Basic & Applied Statistics, Chemistry, Physics.

Agriculture Power and Technology

Grade Levels: 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: Agricultural Power and Technology (APT) exposes students to mechanics, power, technology, and career options in the world of agriculture and beyond. Students participating in the APT will experience mechanical and engineering concepts with exciting hands-on activities, with two to three labs per week. Students will acquire the basic skills around the engineering process, how to identify a problem and take the correct steps to solve issues related to the Food, Fiber and Fuel Industry. The Agricultural Power and Technology course includes: Shop Safety, Tool Operation, Material Selection and Uses, Fabrication, Energy and Power Production, Machine Components and Design, Agricultural Structures, Engineering Design Process. This class (if in FFA) can also be used for your FFA SAE application, helping students earn degrees in FFA, and scholarships. Note: This is not a course held in a shop setting. This is a traditional classroom based course that focuses on the "why's" needed to know how the do the "how's"

Small Gas Engines I

Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Articulated College Credit Available
Description: Have you ever wondered how an engine works? Have you thought about a career in the automotive, marine or power sport industries? Small Gas Engines is a great way to explore career options while learning the principles of how a small gas engine works. In this class you will learn about the principles of two-cycle and four-cycle small gas engines, the tools that are used to work on them, and how to disassemble and reassemble a working engine. A Briggs and Stratton engine will be provided for you.

Small Gas Engines II

Grade Levels: 9, 10, 11, 12
Length /Credits: 1 Semester/1 Credit
Prerequisite: C or better in Small Gas Engines I
Articulated College Credit Available
Description: Do you love snowmobiling, jet skiing, or using outdoor power equipment? Did you enjoy SGE1? If so **SGE 2** will give you the hands-on experience you need to be successful as an owner, operator, and technician. The marine/motorsport/air-cooled engine field is experiencing phenomenal growth and is expected to grow at an even faster rate in the coming years. Career opportunities exist in all areas of the country in both urban and rural areas. This course will offer detailed instruction in the operation, maintenance and repair of internal combustion engines and the equipment they power. Students will form a small business which will provide opportunities to work with clients providing SGE services to the Tiger community.

Metals I

Grade Levels: 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Project Fees: Based on the size of projects
Articulated College Credit Available
Meets Fine Arts Requirement!
Description: Can you see yourself working in the lucrative and high demand fields of Metalworking and Welding? If so, **Metals 1** is the course for you! **Metals 1** introduces students to careers in the welding and metalworking industries. Students will learn to safely operate OAW and SMAW welding and metalworking equipment, develop skills, and build a variety of projects.

Metals II

Grade Levels: 10**,** 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: C+ or better in Metals I
Project Fees: Based on the size of projects
Articulated College Credit Available
Meets Fine Arts Requirement!
Description: Did you like Metals 1? In **Metals 2**, students will expand upon the skills and concepts acquired in Metals 1 and explore other areas of welding and metalworking such as GMAW, GTAW, CNC Plasma Cutting, and project management. In this course students will be asked to design and manufacture a project of their choice.

Woods I (Machine Woodworking)

Grade Levels: 9,10,11,12
Length / Credits: 1 Semester / 1 Credit
Prerequisites: None
Project Fees: Varies depending on project
Meets Fine Arts Requirement!
Description: The purpose of this course is to give students a broad exposure to specific applications of machines, power hand tools, and hand tools so that a project of their design is completed. Instructor approval is required. The first four-five weeks will consist of safety demonstrations and lectures of machines, power hand tools and hand tools as well as students designing, drawing and estimating their project cost. 50% of the total estimate must be received before any wood bought from the school is cut into. The majority of class time will be spent with the students building their projects by selecting the proper equipment and using it correctly and safely. Emphasis on a clean, orderly and safe shop is stressed daily.

Woods II (Furniture & Cabinet Making)

Grade Levels: 10,11,12
Length / Credits: 1 Semester / 1 Credit
Prerequisites: Wood I **(**Machine Woodworking)
Project Fees: Varies depending on project
Meets Fine Arts Requirement!
Description: The purpose of this course is for students to continue their exposure to specific applications of machines, power hand tools, and hand tools so that a project of their design is completed. Students' projects should be a piece of furniture or a cabinet with at least 1 door and/or 1 drawer in some way shape or form. Instructor approval is required. The first four-five weeks will consist of safety demonstrations and lectures of machines, power hand tools and hand tools as well as students designing, drawing and estimating their project cost. 50% of the total estimate must be received before any wood bought from the school is cut into. The majority of class time will be spent with the students building their projects by selecting the proper equipment and by using it correctly and safely. Emphasis on a clean, orderly and safe shop is stressed daily.

CADD (Computer Aided Drafting & Design)

Grade Levels: 9,10,11,12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Project Fees: None
Meets Fine Arts Requirement!
Description: Everything in the world that is made, was designed, sketched up and then drawn on a computer for a set of blueprints or plans. The plans were used by the manufacturer to make that part, piece or “thing.” The purpose of this course is for students to develop skills and knowledge of computer aided drafting to do just that, design and draw using the computer. Students will spend some time learning how to use the software program, AutoCAD and then most of the time students will complete individual design projects. This class would be beneficial for those interested in drafting & design but also for those interested in engineering, manufacturing, machining, construction, interior design, woodworking and metals.

Architectural Drawing

Grade Levels: 10,11,12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: CADD
Project Fees: None
Meets Fine Arts Requirement!
Description: Do you enjoy designing, problem solving, looking at houses and/or floor plans**?** The purpose of this course is for students to further develop skills and knowledge relating to the field of computer aided drafting with specifically, knowledge and skill in the field of architectural drawing. In the bulk of this course students will be developing a set of house plans. These blueprints will include a plot, section, foundation, framing, electrical, plumbing and HVAC plans. While designing and drawing your own house plans you will work with others all while taking care of tools and equipment.

Business Manufacturing

Grade Levels: 10,11,12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: CADD and Woods I or by instructor's approval
Project Fees: None
Meets Fine Arts Requirement!
Description: Join our manufacturing team, “Eye of the Tiger” as we take a business adventure in the world of manufacturing. Students will learn about laser engraving, sublimation printing, pen turning and basic woodworking to produce products for sale. We will research a need or want, design and create a product, advertise and sell. This is a team approach, problem solving, real world class designed for students interested in either business and manufacturing.

Building Construction

Grade Levels: 10,11,12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: Woods I
Project Fees: None
Meets Fine Arts Requirement!
Description: This course will be a “hands on” approach to understanding basic construction methods used for residential dwelling as well as a variety of garage or storage type buildings. The students may participate in, but not limited to, concrete work, brick and block laying, general framing, sheathing, shingling, window and door installation, installation of needed electrical and plumbing components and sheetrocking. Students will practice safe and proper use of machines, power hand tools, and hand tools while maintaining them correctly. They will gain an appreciation for working with the unstable weather of Minnesota as well as relying on co-workers to get the job done.

Drone Technology and Operations (FAA Cert) (SWM Class)

Grade Levels: 11, 12
Length / Credits: 1 Semester / 2 Credits / Fall Semester
Location: Dean Lakes Building, Shakopee, *Transportation may not be available*
Articulated College Credit Available
Description: This course is foundational for unmanned aviation vehicles (UAV), and will prepare you to take the Federal Aviation Administration: Part 107 Remote Pilot Knowledge Test. Topics include: pre-flight procedures, airspace, radio communications, aviation phraseology, regulations, airport operations, aviation safety, weather, cockpit management, and emergency procedures. You will also spend time practicing take-offs, flying and landings on flight simulators before flying a variety of drones. You will look at UAV careers including: UAV pilots, repair and data analytics.

Drone Technology and GIS Systems (SWM Class)

Grade Levels: 11, 12
Length / Credits: 1 Semester / 2 Credits / Spring Semester
Location: Dean Lakes Building, Shakopee, *Transportation may not be available*
Articulated College Credit Available
Description: You will get to develop skills using software like, Drone Deploy, Field Agent and Pix4D to create autonomous flight plans, to control cameras/sensors. Students will then use images and data to create photos and maps needed in agriculture, construction, insurance and real estate careers.

Automotive Technology (SWM Class)

Grade Levels: 12
Length / Credits: 1 Semester or Full Year / 2 or 4 Credits / Fall & Spring Semester
Prerequisite: Small Gas Engines I & Small Gas Engines II
Location: 401 Building, Chaska, *Transportation may not be available*
Articulated College Credit Available
Description: The automotive technology program teaches students the necessary skills and knowledge to work on today's vehicles. This course is designed to prepare students for an automotive future either as an automotive technician or as an automotive consumer. Students will spend 60 percent of their time working with industry standard equipment in the lab. Our curriculum meets NATEF standards and also helps reinforce core subjects through hands-on projects. This two-year program is divided into four independent semesters to allow students to take individual semesters if they are unable to attend the entire program. A driver's license is not required.
Students can enroll any semester. Semesters one and two will be covered in odd numbered school years, 2019/2020 for example. Semesters three and four will be covered on even numbered school years, 2020/2021 for example.

Construction Technology (SWM Class)

Grade Levels: 12
Length / Credits: 1 Semester or Full Year / 2 or 4 Credits / Fall & Spring Semester
Prerequisites: Building Construction
Location: 401 Building, Chaska, *Transportation may not be available*
Articulated College Credit Available
Description: Welcome to the world of construction! You are joining the eight million Americans who have chosen a career in this lucrative field. Construction is one of the nation's largest industries, offering excellent opportunities for high earnings, career advancement, and business ownership. Work in construction offers a great variety of career opportunities. People with many different talents and educational backgrounds–skilled crafts persons, managers, supervisors, and superintendents–find job opportunities in construction and related fields. As you will learn throughout your training, many other industries depend upon the work you will do in construction. From houses and office buildings–everything begins with construction. **The Second Year option is available with instructor permission. Students could work as Crew Chief and learn more about this career field. Students can enroll anytime.**

Residential Electrician (SWM Class)

Grade Levels: 11, 12
Length / Credits: 1 Semester / 2 Credits / Fall Semester
Location: 401 Building, Chaska, *Transportation may not be available*
Articulated College Credit Available
Description: This Career and Technical Education program at SWMetro is designed to give students exposure to entry-level positions in electrical construction and installation occupations. This is one of the most rewarding and highest paid construction trades within the job and apprenticeship training possibilities after high school. This program delivers theory plus hands-on experiences including the installation, maintenance and wiring through the application of the National Electric Code (NEC).
Constructing electrical systems requires a variety of mechanical skills including, but not limited to, measuring, cutting, drilling, bending, fabricating, mounting, fastening, supporting, and terminating. The program requires the efficient and safe use of numerous hand and power tools, as well as the techniques to use trade-specific tools. This course covers material and design of residential wiring, wiring methods, fastening devices, sizing of boxes, wire, overcurrent devices, blueprint reading, and the application of the (NEC). Electrical work is a licensed and regulated occupation. It is important that students are made aware of the laws and rules governing licensing and registration. This course covers the electrical and equipment installation for heating, ventilation and air conditioning for residential buildings.

Health & Science Pathway

Related Careers: *Medical Appliance Technician, Medical and Clinical Lab Technologist, Surgical Technologist, Medical Imaging Technologist, Biomedical Engineer, Forensic Science Technician, Dietetic Technician, Dietician and Nutritionist, Community Health Worker, Massage Therapist, Fitness Trainer and Aerobics Instructor, Athletic Trainer, Recreational Therapist, Physical Therapist, Occupational Therapist, Massage Therapist, Exercise Physiologist, Pharmacy Technician, Medical Assistant, Healthcare Social Worker, Physician, Physician Assistant, Licensed and Practical Nurse, Respiratory Therapist, Dentistry, Ophthalmology, Surgical and Medical Technician.*
Core Classes Required or Encouraged: Pre-Calculus, Calculus, Basic & Applied Statistics, Chemistry, Physics, CC Biology.

Principles of Livestock Production

Grade Level: 9**,** 10, 11, 12
Length / Credits: 1 Semester / 1 Credit / Fall Semester
Prerequisite: None
Articulated College Credit Available
Description: In this course students experience various animal science concepts with hands-on activities. Students' experiences will involve the study of animal handling with a focus on horses, beef cattle, dairy cattle, swine, sheep, goats and poultry. Within each species of animal, students will learn about the core concepts and driving forces behind different management techniques used in the livestock world in order to feed 350 million Americans. Hands on Animal practicums will occur in class and at local facilities. This class (if in FFA) can also be used for your FFA SAE application, helping students earn degrees in FFA, and scholarships.

Companion Animal Veterinary Care

Grade Level: 9, 10, 11, 12
Length / Credit: 1 Semester / 1 Credit / Spring Semester
Prerequisite: None
Description: Companion Animal Vet Science looks at the health and care of your furry friends. Students will explore the different bodily systems, create nutrition rations, and learn about grooming and training of their pets and other common companion animals. This course provides students with the opportunity to have hands-on experience with LIVE animals! Companion Animal Vet Science gives a unique opportunity to students interested in a career related to animal behavior, veterinarian science, or animal training. This class (if in FFA) can also be used for your FFA SAE application, helping students earn degrees in FFA, and scholarships.

Fish and Wildlife Conservation

Grade Level: 9**,** 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Project Fee: $50
Description: Fish and Wildlife Conservation will look at the Hows, Whys and Whats of the ecosystem around us. Students will complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the natural resource industry to build content knowledge and technical skills. Students will investigate areas of Fish and Wildlife Conservation such as ecology, hunting regulations, symbiotic relationships, as well as participate in hands-on projects such as creating fishing rods, taxidermy, and scoring antlers of different deer. This class (if in FFA) can also be used for your FFA SAE application, helping students earn degrees in FFA, and scholarships.

The Science of Food

Grade Level: 9**,** 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Corequisite: Chemistry Courses
Project Fee: $30
Description: Students will complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the food science and safety industry, allowing students to build content knowledge and technical skills. Students will investigate areas of food science including food safety, food chemistry, food processing, food product development, and marketing. This class (if in FFA) can also be used for your FFA SAE application, helping students earn degrees in FFA, and scholarships.

Horticulture

Grade Level: 10, 11, 12
Length / Credits: 1 Semester / 1 Credit / Spring Semester
Prerequisite: None
Class Fee: $20
Description: Horticulture! The only class where you will learn to multiply through division! Topics in this course include using the Scientific Method, Soil Profile and Make-Up, How to Increase Plant Numbers and Why it is possible, The life cycle of a plant from seed to mature adult seed producing plant. This course offers exciting hands-on labs several times a week, your success in class shows when you bring home all your plants! This class will also incorporate a small business aspect where you can show off all your knowledge during the Spring FFA Plant Sale. There is a $20 fee for course materials. Students will be asked to provide their own Lab notebook for this class. This class (if in FFA and on the Plant Sale Committee) can also be used for an FFA SAE (if not on the Plant Sale Committee can be used for application only), helping students earn degrees in FFA, and scholarships.

Introduction to Health Science

Grade Levels: 9, 10
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: Intro to Health Science provides knowledge and skills students need for careers in health care. Students explore the services, structure, and professions of the healthcare system and get guidance on choosing a specific career path in health services, including career paths in emergency medicine, nutrition, and alternative medicine.

CC Biology (BIOL 100)

Grade Levels: 11, 12
Length / Credits: 1 Semester / 2 High School & 4 College Credits
Prerequisites: Biology. Must apply and be accepted into a post-secondary institution. Juniors should be in the top 20% of their class rank and seniors in the top 50% of their class rank.
Concurrent Enrollment: Minnesota State University, Mankato
Description: Concurrent Biology (Bio 100) is an entry college level course designed to satisfy general education requirements for college students. The course focuses on basic biological principles with special emphasis on the human species. Topics include biodiversity, human and social aspects of biology, ecology, cellular processes and function, human reproduction, prenatal development and heredity.

Human Anatomy

Grade Levels: 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: Biology
Description: Human Anatomy will be covered 2nd Semester. All systems of the human body will be covered as well as an in depth look at Health/Medical issues. Students planning on a career in the medical, health or vet fields are strongly encouraged to enroll as well as students having a general interest in learning about the human body. A comparative animal study will be done at the end of the course using the fetal pig.

General Chemistry 231/231L

Grade Levels: 11, 12
Length / Credits: Full Year / 2 High School & 4 College Credits
Prerequisites: Physical Science, Biology, & Geometry (must have completed with a "C" average or better). Must apply and be accepted into a post-secondary institution. Juniors should be in the top 20% of their class rank and seniors in the top 50% of their class rank.
Concurrent Enrollment: Southwest Minnesota State University, Marshall
Description: General Chemistry I is the first semester college chemistry course appropriate for chemistry, biology and other science majors including pre-medical and other medical-related pre-professional students.
Chemistry is the study of matter and the changes it undergoes. This course will require a good understanding of algebra. Labs and lab write-ups are required. Some of the major topics covered are: writing and balancing chemical reactions/equations, chemical bonds, thermal chemistry, gas laws and stoichiometry.

General Chemistry 232/232L

Grade Levels: 11, 12
Length / Credits: Full Year / 2 High School & 4 College Credits
Prerequisites: General Chemistry 231/231L Must apply and be accepted into a post-secondary institution. Juniors should be in the top 20% of their class rank and seniors in the top 50% of their class rank.
Concurrent Enrollment: Southwest Minnesota State University, Marshall
Description: This course is the continuation of General Chemistry I. The second of the two-semester sequence of General Chemistry is the first college chemistry course appropriate for chemistry, biology and other science majors including pre-medical and other medical-related pre-professional students. Chemistry is the study of matter and the changes it undergoes. This course will require a good understanding of algebra. Labs and lab write-ups are required. Some of the major topics covered are: Intermolecular forces, Solution properties, Chemical kinetics, Equilibrium

Introductory Physics 120

Grade Levels: 11,12
Length / Credits: Full Year / 2 Credits & 4 College Credits
Prerequisites: Algebra II (or more advanced math) Must have completed with a "B" Average or better. Must apply and be accepted into a post-secondary institution. Juniors should be in the top 20% of their class rank and seniors in the top 50% of their class rank.
Corequisite (taken at the same time): Pre-Calculus or Calculus
Concurrent Enrollment: Southwest Minnesota State University, Marshall
Description: Physics is the study of everyday phenomena. This course will require a good understanding of algebra. Labs and lab reports are required. Some of the major topics covered are: mechanics, forces, energy & work. This course is designed to give any student planning for a career in science or medicine a strong and confident knowledge of physics.

Physics by Inquiry (CI 1563)

Grade Levels: 11,12
Length / Credits: 1 semester/ 2 High School Credit & 4 College Credits
Prerequisites: Must apply and be accepted into a post-secondary institution. Juniors should be in the top 20% of their class rank and seniors in the top 50% of their class rank.
Corequisite (taken at the same time): Algebra II, Pre-Calculus or Calculus
Concurrent Enrollment: University of Minnesota, Minneapolis
Description: The goal of CI 1563 is to help students create their own understanding of some fundamental concepts in physics by working in a way similar to scientists. Students will work in small groups to perform experiments and to create explanatory theories for how things work. This process of making qualitative and quantitative observations of experiments, analyzing the data, developing predictive models, discussing the results with peers, and conducting further experiments to refine the models is the essence of what scientists do.

Nursing Assistant (NAR) (SWM Class)

Grade Levels: 11, 12
Length / Credits: 1 Semester / 2 Credits
Prerequisite: None
Location: 401 Building, Chaska*, Transportation may not be available*
Project Fees: For certification, students will need to pass a background check ($30.10), get screened for Tuberculosis, and purchase a uniform. Optional: State skills test and National exam (around $200)
Articulated College Credit Available
Description: Approved through the Minnesota Department of Health, Nursing Assistant will train students to work directly with residents of a long term care facility. Clinical rotations are conducted at Auburn Manor in Chaska. Students will learn the curriculum and skills required to take the state Nursing Assistant Registry Exams. Students also earn certifications in basic first aid and CPR through the American Heart Association.

Emergency Medical Responder (EMR) (SWM Class)

Grade Levels: 11, 12
Length / Credits: 1 Semester / 2 Credits / Fall Semester
Prerequisite: None
Location: 401 Building, Chaska*, Transportation may not be available*
Articulated College Credit Available
Description: Medical training required of firefighters and law enforcement, students will learn about emergency services, advanced first aid, and healthcare provider CPR. This course includes a focus on learning anatomy and physiology and provides many field experiences to do hands-on skills. Concurrent Enrollment credits are available from Normandale Community College. To enroll for college credit, students are required to: Fill out an application, provide a transcript and take a college entrance exam (Accuplacer).

Emergency Medical Technician (EMT) (SWM Class)

Grade Levels: 11, 12
Length / Credits: 1 Semester / 2 Credits / Spring Semester
Prerequisite: Emergency Medical Responder - EMR course
Location: 401 Building, Chaska*, Transportation may not be available*
Project Fees: For certification, students will need to pass a background check ($30.10), get screened for Tuberculosis, and purchase a uniform. Optional: State skills test and National exam (around $200).
Articulated College Credit Available
Description: EMTs are clinicians, trained to respond quickly to emergency situations regarding medical issues, traumatic injuries and accident scenes. EMTs are often employed by ambulance services, governments, and hospitals, but are also employed by fire departments, police departments, and there are many firefighter/EMTs and police officers/EMTs. The criteria for earning industry certifications come from the issuing institutions and are generally higher than that of a typical high school class. Earning certifications is an option and not required to receive high school credit. College credit is available for students who earn their certifications.

Human Services Pathway

Related Careers: *Early Childhood Educator, K-12 Teacher, Administrator, Educational Paraprofessional, Training and Development Manager/Supervisor, Police and Sheriff's Patrol Officers, Correction Officers and Jailers, Attorney, Court Reporters, Paralegal and Legal Assistants, Government Service, Labor Relations Specialist, Firefighter, Military Service, Non-Governmental Organization, Lobbyist, Social and Human Service Assistant, Mental Health Counselors, Health Educators, Clinical, Counseling, and School Psychologists.*

Student Tutor

Grade Levels: 9, 10, 11, 12
Length / Credits: 1 Semester or Full Year / 1 or 2 Credits
Prerequisite: Student Support Staff Approval
Description: This elective credit will give a student the opportunity to share their academic strengths and assist students who need support in a particular course with: organization, test preparation and homework assignments.

Teacher Assistant

Grade Levels: 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: TA's are restricted to Oak Crest and Chatfield placements. Students need to provide their own transportation out to Oak Crest. Students will be assigned a teacher to assist in day to day preparation. Tasks are designated by the cooperating teacher and may include: running copies, classroom organization/preparation, student support. **Students can receive a maximum of two semester credits as a TA over their four years of High School.**

Teacher Cadet

Grade Levels: 11, 12
Length / Credits: Full Year / 2 Credits
Prerequisite: None
Description: This program is designed to encourage academically talented, high-achieving, high school students with exemplary interpersonal and leadership skills to consider teaching as a career. You will be paired with a teacher and be a part of that instructor's classroom for the year. Students will complete a capstone presentation to include their day to day reflections, skills they attained and any projects they completed for the staff member.

Psychology

Grade Levels: 10, 11, 12
Length / Credits: 1 Semester / 1 Credit
Prerequisite: None
Description: This course is a general introduction to psychology. Psychology provides students with a systematic and scientific approach to the study of human behavior and mental processes. Students will explore various aspects of human behavior including theories of personality, aspects of thought processes, states of consciousness, motivation and emotion, and the basic areas of mental illness. There is an emphasis on "doing" psychology rather than simple knowledge of the content.

Cosmetology I **(SWM Class)**

Grade Levels: 11, 12
Length / Credits: 1 Semester or Full Year / 2 or 4 Credits / Fall & Spring Semester
Prerequisite: None
Project Fees: $85 for equipment kit and project supplies
Location: 401 Building, Chaska*, Transportation may not be available*
Description: Our mission is to provide students with the opportunity to discover the Cosmetology industry through learning, leadership, marketing, and artistic skills. We offer students the opportunity to explore and practice the art and science of beauty care. The course consists of all aspects of this industry including Minnesota State Laws and Rules, professional development, design decision in hairstyling, chemical texturizing, hair coloring, salon environment, nail care, skin care, waxing, retailing and salon business.
This program is offered in a licensed Cosmetology School setting, thus giving the student both the training and hands-on aspects of the profession. Electing this program will allow students to explore diverse career possibilities as well as earn hours that are transferable to post-secondary Cosmetology schools.

Semester 1	**Semester 2**
● Intro to MN State Laws & Rules ● Safety & Infection Control ● Intro to Hair ● Intro to Hair Styling ● Haircutting ● Advanced Hair Styling ● Professional Development ● Trichology ● Practical Application	● Intro to Manicuring ● Intro to Pedicuring ● Artificial Nails ● Intro to Massage ● Gel Nail Application and Polish ● Intro to Skin Care ● Waxing ● Make-up ● Facials ● Practical Application

Cosmetology II (SWM Class)

Grade Level: 12
Length / Credits: 1 Semester or Full Year / 2 or 4 Credits / Fall & Spring Semester
Prerequisite: Full year of Cosmetology I
Project Fees: $85 for 2nd equipment kit, project supplies, and mannequin
Location: 401 Building, Chaska*, Transportation may not be available*
Description: Topics covered include: Review of Basic Haircutting and Laws and Rules, Advanced Haircutting, Theory and Techniques, Advanced Hair Styling, Intro to Chemical Texturing, Intro to Hair Color, Practical Application. Students may be eligible to receive post-secondary credits for career and technical courses completed

Culinary Artistry (SWM Class)

Grade Levels: 11, 12
Length / Credits: 1 Semester or Full Year / 2 or 4 Credits / Fall &/or Spring Semester
Location: Dean Lakes Building, Shakopee*, Transportation may not be available*
Description: This is a chef driven culinary course where fine dining and the arts fuse together on the plate. Through many exciting hands-on cooking labs, you will learn to cook & create both modern and traditional cuisine through the exposure to global ingredients, cultures, and utilizing artistic principles with focus on sanitation, safety, teamwork in a professional kitchen environment. You will learn to use kitchen math, recipe costing software. You will be trained in basic butchery, wood fire cooking & cutting-edge global food styles, scaling recipes, sous vide cooking, color and design principles to name a few topic points. Get ready to wok cook house-made noodles over an open fire, learn old world artisanal pasta making, or create wood fired pizzas from house made mozzarella and grain specific pizza doughs. Some culinary experience is preferred but not required.

Criminal Justice (SWM Class)

Grade Levels: 11, 12
Length / Credits: 1 Semester or Full Year / 2 or 4 Credits / Fall & Spring Semester
Prerequisite: None
Location: Dean Lakes Building, Shakopee*, Transportation may not be available*
Articulated College Credit Available
Description: The security needs of today's world have created a new career demand. Preparation of the various professionals dealing with these concerns will be the subjects addressed in the Criminal Justice Program. The program is designed for students interested in becoming police officers, federal agents, probation/parole officers, lawyers/judges, juvenile justice workers, and crime scene investigators. The institutions of police, courts, and corrections will be studied as to how they protect people and their rights, apprehend law violators, prevent crime and provide social services. Students will have the chance to become CPR/First-Aid Certified. Writing and critical thinking skills will be developed throughout the course by class discussion, student presentations and small group activities. Related college programs are available at two and four year state colleges. The course is a two-year program with a different class offered each semester. Students applying for and meeting PSEO eligibility could earn 3 credits per semester from Normandale Community College.

Science & Technology Pathway

Related Careers: *Electrician, Electrical Engineer, Electronics Technician, Electrical Power-Line Installers and Repairers, Power Plant Technician and Operator, Electrical Systems Designer and Drafter, Network and Computer Systems Administrators, Computer Network Architects, Computer Hardware Engineer, Computer Hardware Technician and Repairer, Computer Research Scientist, Software Developer, Computer Systems Analyst, Computer and Information Systems, Compute r Programmers, Information Security Analysts, Database Administrators, Natural Sciences Managers, Environmental Engineer, Green Technology and Alternative Energy Designer, Geoscientist & Conservation Scientists, Mining and Geological Engineer.*
Core Classes Required or Encouraged: Pre-Calculus, Calculus, Basic & Applied Statistics, Chemistry, Physics, CC Biology.

Exploring Computer Science

Grade levels: 9, 10
Length/Credits: 1 semester/1 credit
Prerequisites: None
Meets Fine Arts Requirement!
Description: The course aims to empower students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun. CS Discoveries (CSD) takes a wide lens on computer science by covering topics such as programming, physical computing, web development, design, and data. The course inspires students as they build their own websites, apps, games, and physical computing devices. The foundation of this course is built from code.org programming resources.

Computer Repair: Hardware & Software (SWM Class)

Grade Levels: 11, 12
Length / Credits: Full Year / 4 Credits / Fall & Spring Semester
Prerequisite: None
Location: Dean Lakes Building, Shakopee*, Transportation may not be available*
Articulated College Credit Available
Description: Computer Repair and Certification gives you the knowledge and ability to work with computers and operating systems in order to…

- Not have to ask for help while using a computer, ever.
- Build or upgrade your own computer and software.
- Begin a college career in computer networking, get jobs working on computers while in college and beyond.
- Become an industry recognized and “certified” computer technician.

The content of this course tracks towards learning the material required to pass either the TestOut PC Pro or CompTIA A+ exams. These are computer industry recognized exams. This course duplicates the first course of many colleges in the study of computer systems and networking.

Students are encouraged to start in fall semester, however they can also start spring semester and complete the course the following fall if possible. Taking or passing either exam is not a course requirement and does not count negatively toward your grade. You will be offered a chance to take the PC Pro exam during class. This class is a prerequisite for the computer networking class. This course requires a desire to understand computers, to work inside computers and to repair them. This is not a computer gaming class.

SEMESTER 1	**SEMESTER 2**
You will learn the parts and components of computer hardware, including: ● Being a PC technician ● System Components: power supply, motherboard, processors, etc. ● Peripheral Devices: USB, display, firewire, etc. ● Storage: drives – ATA, Serial ATA, SCSI, File System, RAID, and SSD ● Networking: hardware, Ethernet, network addressing – IP v4, IP v6, utilities, HomeGroup ● Printing: configuration, management, maintenance ● Mobile Devices: notebook computers, apps, maintaining	You will learn about operating systems, specifically user and computer settings: ● Windows System Management: preferences, performance, users and groups, applications, updates ● System Implementation: components, pre/post install considerations ● File Management: locations, managing, NTFS, sharing, offline ● Security: best practices, physical, social, BIOS, malware, authentication, encryption, firewalls, proxy ● Troubleshooting: motherboard, storage, video, etc.

Computer Networking (SWM Class)

Grade Level: 12
Length / Credits: Full Year / 4 Credits / Fall & Spring Semester
Prerequisite: Computer Repair: Hardware & Software
Location: Dean Lakes Building, Shakopee*, Transportation may not be available*
Articulated College Credit Available
Description: Computer Networking explains how the internet and computer networks work. It covers computer to computer communication and the various communication pathways in detail. Computers communicate mostly using a “contention” method of signaling. This is similar to the classroom where students “contend” to speak in the class by raising their hand. Students who take this class generally want to…

- Go to college (2 or 4 year) in some aspect of computers and computer networks -- hardware, networking or programming.
- Understand more about computer technology than was taught in the Computer Repair course.
- Understand the “language” of inter (personal computer) communication and are interested in how communication takes place in general.
- Apply themselves to an interesting, technical subject that is in use all over the world
- Obtain a Network Pro or Network Plus certification.

A mastery level understanding of computers and an introductory understanding of computer networks is required for successful completion of this course – these can be obtained in the Computer Repair course which is a prerequisite. Students are encouraged to start in the fall semester. Taking or passing the Network Pro or Network Plus exam is not a course requirement and does not count negatively toward your grade. You will be offered a chance to take the Network Pro exam during class.

SEMESTER 1	**SEMESTER 2**
● Networking Basics ● Cables and Connections ● Networking Devices ● Ethernet ● Network Implementation ● Wireless Networking ● Wide Area Networks	● Network Security ● Network Management ● Troubleshooting