



Jackson County Central High School

Catalog of Course
Descriptions
2024-2025

Jackson County Central

High School

Catalog of Course Descriptions

2024-2025

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College in Schools (CIS) Course Qualifications
MN Career Fields, Clusters & Pathways

Graduation Credit Requirements ***2024-2025 - 54 total credits***
2025-2026 - and beyond - 56 total credits

The conditions of the classroom expectations and grading lay at the discretion of the classroom teacher. The components of the class will be developed in the course syllabus and provided to the students at the beginning of the term.

English	8 credits	Social 9	2 credits
Algebra 2	2 credits	American History	2 credits
Geometry	2 credits	World History	2 credits
Probabilities/Stats	2 credits	Government	1 credit
Physical Science	2 credits	Economics	1 credit
Biology	2 credits	Health / Phy Ed	4 credits
Chemistry	2 credits	Fine Arts	2 credits

Electives, enough electives to meet the total required credits for your graduating class.

February 21, 2024

All " College School" courses taught in the high school will receive 1 high school credit.

updated 2.20.24

SOUTHWEST MN STATE UNIVERSITY - Marshall

Blended Sections Allowed

MCCC Fed College Code 002375

<http://www.smsu.edu/campuslife/registrationrecords/index.cfm?id=2200>

Student qualification requirements.....

SENIORS Need to meet 1 of the following..... Top 1/2 class; GPA= 3.0+; or 50% selected tests

JUNIORS Need to meet 1 of the following..... Top 1/3 class; GPA= 3.0+; or 70% selected tests

SOPHOMORES Need to meet 1 of the following..... Top 10% of class; GPA= 3.5+; or 90% standardized test

HS Course Title	HS Course #	HS Course Length	HS Course Instructor		College Course iD	College Course Title	College Credits
Algebra 3-CIS	355	Sem 1	Schmidt		Mathematics 110	College Algebra	3
Calculus 1-CIS	334	Sem 1	Schmidt		Mathematics 150	Calculus I	5
Calculus 1-CIS	334B	Sem 2	Schmidt				
Pre-Calculus-CIS	336	Sem 1	Schmidt		Mathematics 135	PreCalculus	5
Pre-Calculus-CIS	336B	Sem 2	Schmidt				
Statistics-CIS	356	Sem 2	Schmidt		Mathematics 200	Intro to Statistics	3
Intro To Education-CIS	250	Sem 2	Lucht		Education 101	Introduction to Education and Lab	3
American Government CIS	234	Sem 1&2	Lucht		POL 120	American National Governemnt	3
Psychology CIS	254	Sem 1	Lucht		Psych 101	General Psychology	3

MN WEST COMM & TECH - Jackson

Blended Sections Allowed

MCCC Fed College Code 005263

<http://www.mnwest.edu/index.php/registration/transcript-request/>

Student qualification requirements.....

All students - Reading Scores: Classic Accuplacer-78; Next Gen Accuplacer-250; or Reading ACT 21

All students - Cumulative GPA = 2.6 for courses with Reading score requirement

SENIORS - Top 1/2 of class or ACT 21+

JUNIORS - Top 1/3 of class or ACT 24+

SOPHOMORES - 8th grade MCA reading score of 850; top 10% of class/teacher recommendation

HS Course Title	HS Course #	HS Course Length	HS Course Instructor		College Course iD	College Course Title	College Credits
Anatomy/Phys CIS	455	Sem 1	Tvinnereim		BIOL 2201	Human Anatomy	4
	455B	Sem 2	Tvinnereim		BIOL 2202	Human Physiology	4
Principles in Biology 1 CIS	460	Sem 1	Tvinnereim		BIOL 1110	Principles of Biology I	4
Principles in Biology 2 CIS	461	Sem 2	Tvinnereim		BIOL 1111	Principles of Biology II	4
Medical Terminolgy CIS	465	Sem 2	Tvinnereim		BIOL 2245	Medical Terminology	2
	465B	Sem 2	Tvinnereim				
US History 2 CIS	231	Sem 1	Kneifl		HIST 1102	United State History II	3
	231B	Sem 2	Kneifl				
Western Civiliation 1 CIS	238	Sem 2	Kneifl		HIST 1111	Western Civilization I	3
Intro to Literature CIS	153	Sem 2	York		ENGL 1105	Introducation to Literature	3
College Composition CIS	154	Sem 1	York		ENGL 1101	College Composition	3
Modern American Literature CIS	158	Sem	York		ENGL 2202 3	Modern American Literature	3

English



Year
2 Credits

English 9 Course# 101 Grades 9

Prerequisite: English 8

Career Pathway: **Engineering & Manufacturing Ag, Food & Natural Resources**
Arts, Communications & Information Systems Human Services & Education
Business Mgmt & Administration Health Science

✓ **Required**



This course is designed as a general review of grammar, mechanics, and usage. Elements of short story, poetry, novel, drama, and nonfiction will be introduced. Writing, both formal and creative, will be part of this class. Students will learn about the writing process and acquire strategies to enable them to pass the MCA Writing Test. Completing the research paper is a requirement in order to successfully complete the course. Generally, this class is an exposure to all the language arts rather than a focused look at any one of them.

English



Year
2 Credits

English 10 Course# 102 Grades 10

Prerequisite: English 9

Career Pathway: **Engineering & Manufacturing Ag, Food & Natural Resources**
Arts, Communications & Information Systems Human Services & Education
Business Mgmt & Administration Health Science

✓ **Required**



This course is designed to give sophomore students a foundation in the basic elements of good literature. Students learn to read for more than just the story. They analyze characters, study literary techniques, and discuss authors' purposes. Through thinking, talking, and writing about ideas in literature, students are led to understand that literature is the art of revealing truth about life. This course includes short stories, poetry, drama, and novels. Student writing is a part of the work in this course and is always done with relevance to the type of literature being studied. Some informal speaking activities will also be included. Students are also required to review the elements of grammar and correct usage. In addition, students will be given a review of reading strategies to enable them to pass the MCA Reading Test.

English 11 and 12 will be restructured starting with the 2022-23 school year. All 11th and 12th grade students will take American Literature and Composition for the 2022-23 school year. All 11th and 12th grade students will take World Literature and Public Speaking in the 2023-24 school year. **Note:** Students who opt to take concurrent enrollment or PSEO courses can only replace a similar semester of English 11/12, i.e. Academic Writing replaces the composition semester of English 11/12, but may not be used to replace the American Literature semester.

English



American Literature Course# 103 Grades 11-12

Prerequisite: English 9 and 10

Career Pathway: **Engineering & Manufacturing Ag, Food & Natural Resources**
Arts, Communications & Information Systems Human Services & Education
Business Mgmt & Administration Health Science

✓ **Required**



Semester
1 Credit

Grades 11 and 12 (alternating years beginning in 2022-2023; 24-25; 26-27) This course will be a survey of American literature from the nineteenth century encompassing a wide range of readings by American authors.

English



Composition
Course# 104
Grades 11-12

Prerequisite: English 9 and 10

Career Pathway: **Engineering & Manufacturing** Ag, Food & Natural Resources
Arts, Communications & Information Systems Human Services & Education
Business Mgmt & Administration **Health Science**

✓ **Required**



Semester
1 Credit

Grades 11 and 12 (alternating years beginning in 2022-2023; 24-25; 26-27). This course will give students experiences writing for a variety of audiences and for a variety of purposes.

English



Intro to Journalism
Course# 112
Grades 10-12

Prerequisite: English 9 with at least a "B"

Career Pathway: **Engineering & Manufacturing** Ag, Food & Natural Resources
Arts, Communications & Information Systems Human Services & Education
Business Mgmt & Administration **Health Science**

Elective



Semester
1 Credit

- Journalism history
 - Journalism in the colonial era
 - Yellow journalism
 - Muckraking
 - Covering wars
 - Evolution of journalism in the modern era
- Journalism ethics
 - Honesty and integrity
 - Protecting a confidential source
 - Publishing sensitive information
- Newspaper writing
 - Craft and structure: how does news writing differ from other forms of writing?
 - How to conduct interviews
 - Editorial writing: How to write persuasively as a representative of the newspaper
 - Sports writing: How to cover a game

English



Literature in Film

Course# 114

Grades 11-12

Prerequisite: English 9 and 10

Career Pathway: **Engineering & Manufacturing Ag, Food & Natural Resources**

Arts, Communications & Information Systems Human Services & Education

Business Mgmt & Administration Health Science

Elective



Semester
1 Credit

In this elective course, students will analyze how various works of literature have been depicted on screen, focusing on the choices filmmakers make and how that influences the story.

English



Husky English

Course# 115

Grades 10

Prerequisite: None

Career Pathway: **Engineering & Manufacturing Ag, Food & Natural Resources**

Arts, Communications & Information Systems Human Services & Education

Business Mgmt & Administration Health Science

✓ Required



Semester
1 Credit

This required course will have a double focus of developing students' mastery of the State Standards in Reading, and applying those skills in a student-driven research project. The first half of the class will apply the principles of the Science of Reading to build the students' ability to actively read informational texts. The second half of the course will see the students apply their reading skills, as they conduct research into a topic of their choosing and synthesize their findings into a final product that is appropriate to their research.

Rationale: As evidenced by the school's MCA scores, JCC students have demonstrated a need for additional instruction in the areas of reading and math. Husky English will address the shortcomings in the area of reading, with a specific focus on reading informational texts. The inclusion of a research project encourages the students to apply their improved reading skills in an area that interests them, which should improve student engagement. By adding Husky English to the schedule, students will gain approximately 4200 minutes of reading instruction and practice during their sophomore year.

Other: **Husky English** would be offered during the first three quarters of a block schedule, or during either semester under our current schedule. This would allow students to reap the benefits of the extra instruction prior to taking their MCA Reading test.

English



British Literature

Course# 118

Grades 9-12

Prerequisite: None

Career Pathway: **Engineering & Manufacturing Ag, Food & Natural Resources**

Arts, Communications & Information Systems Human Services & Education

Business Mgmt & Administration Health Science

Elective



Semester
1 Credit

In this elective course, students will read modern (1800-present) British literature. Students will explore how British history and society influenced each work and how the work's universal themes are developed and are still relevant today.

English



Intro to Literature (CIS)

Course# 153

Grades 11-12

Prerequisite: *Qualify for Concurrent Enrollment*

Career Pathway: *Engineering & Manufacturing Ag, Food & Natural Resources*

Arts, Communications & Information Systems Human Services & Education

Business Mgmt & Administration Health Science

College Credit



**Semester
1 Credit**

Offered through Minnesota West. Introduction to Literature examines the elements, forms, and content of fiction, drama, and poetry. The course aims to introduce students to various genres of literature, with an emphasis on reading strategies and reading analysis. Assignments include readings, literary reflections, and a research-based literary presentation.

English



College Composition (CIS)

Course# 154

Grades 11-12

Prerequisite: *Qualify for Concurrent Enrollment*

Career Pathway: *Engineering & Manufacturing Ag, Food & Natural Resources*

Arts, Communications & Information Systems Human Services & Education

Business Mgmt & Administration Health Science

College Credit



**Semester
1 Credit**

Offered through Minnesota West. Composition I reviews and reinforces basic essay writing principles. Emphasis is on rhetorical modes of development and writing as a process. Assignments include several essays and a short research paper.

English



Modern American Literature (CIS)

Course# 158

Grades 11-12

Prerequisite: *Qualify for Concurrent Enrollment*

Career Pathway: *Engineering & Manufacturing Ag, Food & Natural Resources*

Arts, Communications & Information Systems Human Services & Education

Business Mgmt & Administration Health Science

College Credit



**Semester
1 Credit**

Modern American Literature introduces prominent American writers and influential literary works that have shaped American cultural identity from 1865 through the present. Modern American Literature takes a broad view of the traditional canon to include writers and works from many areas of America's past.



Semester
1 Credit

Economics - Social
Course# 207
Grades 11-12
Prerequisite: None
Career Pathway:

***** Meets the Economics State Requirement**

This is a survey course exploring both macro and micro economics. The class will cover the following Topics:
 1. Foundations of Capitalism and Free Enterprise. 2. Entrepreneurship. 3. Supply and Demand, Opportunity Cost Theories. 4. International Trade and Federal Reserve



Semester
1 Credit

Economics - Agriculture
Course# 1110
Grades 11-12
Prerequisite: None
Career Pathway:

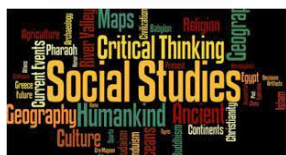
***** Meets the Economics State Requirement**

The High School Economics course is designed to provide students with a fundamental understanding of economic principles and their application to various aspects of society. Through the exploration of topics such as microeconomics, macroeconomics, and personal finance, students will develop the knowledge and skills necessary to make informed decisions as consumers, workers, and citizens. The course aims to foster critical thinking and analytical skills, enabling students to comprehend and engage with economic issues at both the individual and societal levels.

Note: This Economics course aims to equip students with a solid foundation in economic principles and their practical applications. By examining real-world scenarios and economic issues, students will develop the skills needed to understand and navigate the complexities of the global economy, empowering them to make informed decisions in their personal and civic lives.



Social Studies



Year
2 Credits

Fees \$5

Social Studies 9 **Course# 201** **Grades 9** *Prerequisite: None* *Career Pathway:*

✓ **Required**

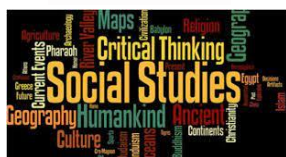


The first semester of this class will focus on the JCC Husky Pathways. Students will learn about themselves, their interests, and start planning for their futures. Students will learn about what options they have, planning their studies to ensure they graduate, choosing the right college or career field, and much more.

The second semester of this course covers Geography skills such as physical and human characteristics, economic activities, human settlement, and political systems. Students will be expected to learn the economic importance of, and the political interests along with some history of the countries throughout the world. Students need to understand the diversity and the interdependence of the world. Learning about the different cultures, geographic features, and people of the world will benefit students in understanding their history, the connectedness of today's world, and prepare them to enter more advanced courses in the Social Studies area. Students will participate in a capstone project (JCC World's Fair) in which they research and present on a country of their choice.

Lab fee \$5.00 to cover the cost of World Fair project.

Social Studies



Year
2 Credits

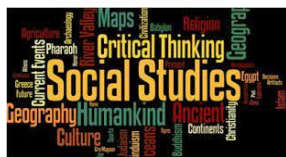
American History 10 **Course# 202** **Grades 10** *Prerequisite: None* *Career Pathway:*

✓ **Required**



This is a survey course, taught by all HS Social Studies staff, starting where Social Studies 9 leaves off. First semester topics include the Civil War, the Wild West, Industrial Revolution and its effects, the Progressive Era, the Emergence of America as a world power, and World War I. The following units will be covered in Semester 2. The Roaring Twenties, Great Depression and World War II, the Cold War including Vietnam and Korea War, the Civil Rights Movement, and the U.S. involvement with the Middle East.

Social Studies



Year
2 Credits

World History 11 **Course# 203** **Grades 11** *Prerequisite: None* *Career Pathway:*

✓ **Required**



World History is a year-long course with an emphasis on world history excluding American. Students examine the social, political, and economic dimensions of the human experience from a global perspective. Throughout the class, students will trace the evolution of human society from hunting-gathering groups to agricultural societies to large-scale and complex civilizations. Topics Discussed Range From: Ancient Mesopotamia, Ancient Egypt, Greek society and mythology, Roman Empire, Holy Roman Empire, Chinese Dynasties, Absolute Kings and Queens, French and English Revolutions, Korean War, Vietnam, Gulf Wars and the War on Terror.

American Government
Course# 204
Grades 12
Prerequisite: None
Career Pathway:

[illegible]

Criminal Justice
Course# 206
Grades 11-12
Prerequisite: None
Career Pathway: Human Services & Education

[illegible]

Current Issues
Course# 208
Grades 9-12
Prerequisite: None
Career Pathway:

[illegible]

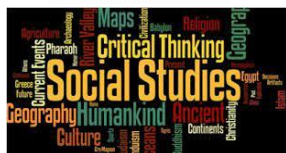
Social Philosophy & Debate
Course# 210
Grades 11-12
Prerequisite: None
Career Pathway:

10

1 Credit

educated opinions. We will also be looking at past philosophers' viewpoints and using their stances to develop our own philosophical views. Once you have developed your own stance you will then be expected to defend your philosophical view/opinion that has been supported with your **research**. Topics and readings discussed range from: Logic, Ethics, Political Philosophy, Freedom and Determinism, What is the Mind?, Plato's Republic, Civil Disobedience

Social Studies



Semester
1 Credit

History of Pop Culture

Course# 212

Grades 9-12

Prerequisite: None

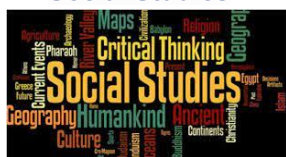
Career Pathway: Arts, Communications & Information Systems

Elective



This is an elective course for This course will analyze and evaluate aspects of 20th and 21st century pop culture and its role in society. It explores popular culture as important economic, political, and social texts and works to understand how the production and consumption of popular culture shapes, and is shaped by, our lived experiences. Put another way, this course explores what popular culture says about society and, conversely, what society says about popular culture.

Social Studies



Semester
1 Credit

Modern American History

Course# 222

Grades 10-12

Prerequisite: None

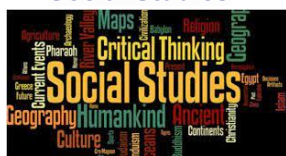
Career Pathway:

Elective



Modern American History is a study of the united States from 1980 to the present. The course explores political, social, and economic events and people that impacted the United States and their impact on our world today.

Social Studies



Semester
1 Credit

Modern World History

Course# 223

Grades 10-12

Prerequisite:

Career Pathway:

Elective



Modern World History is a study of global history from 1980 to present. The course explores political, social, and economic events and people that impacted the world and their impact on the world today

[illegible]

*This course can be taken in place of American History 10 for college credit if qualifications are met.

[illegible]

Explore the intricacies and impact of modern warfare through the lens of American military history. This course delves into the major conflicts and interventions that have shaped contemporary America, examining key events, strategies, and consequences. From the Spanish-American War to present-day conflicts, students will analyze the political, social, and economic dimensions of war, as well as the experiences of soldiers and civilians. Through lectures, discussions, and multimedia resources, gain a comprehensive understanding of the complexities of modern American warfare and its enduring significance in shaping global affairs.

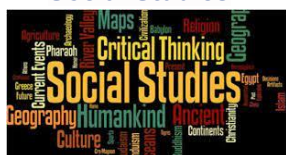


Surveys the executive, legislative, and judicial branches of the national government; the role of political parties, interest groups and public opinion. Includes discussion of local and state government and the political uses of the law.

[illegible][illegible]

13

Social Studies



Semester
1 Credit

Child Growth & Development (CIS)

Course# 252

Grades 11-12

Prerequisite: Successful completion of Intro to Ed

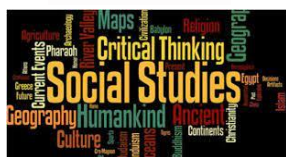
Career Pathway: Human Services & Education

College Credit



Offered through SMSU. An introductory study of child growth and development from conception through adolescence with a concentration on the physical, cognitive, and social-emotional domains of development. Emphasis areas of the course include: historical foundations and theories associated with the study of child development, the research process, the implications of teaching and learning, student diversity and pertinent topics associated with the possible effect of environment and behavior on prenatal development through adolescence.

Social Studies



Semester
1 Credit

Abnormal Psychology

Course# 253

Grades 10-12

Prerequisite: None

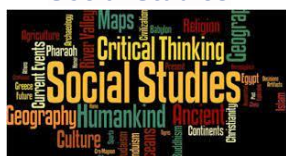
Career Pathway: Human Services & Education

Elective



This course provides an examination of the various psychological disorders, as well as theoretical, clinical, and experimental perspectives of the study of psychopathology (study of mental illness). Emphasis is placed on terminology, classification, etiology (causes), assessment, and treatment of the major disorders. Upon completion, students should be able to distinguish between normal and abnormal behavior patterns as well as demonstrate knowledge of etiology, symptoms, and therapeutic techniques.

Social Studies



Semester
1 Credit

Psychology

Course# 254

Grades 11-12

Prerequisite: None

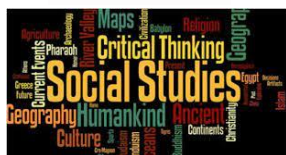
Career Pathway: Human Services & Education

Elective



This course surveys content areas of general interest in psychology. Topics include major schools of thought in psychology, development, states of awareness, learning, memory, health and stress, personality, abnormal behavior, psychotherapy, and social issues.

Social Studies



Semester
1 Credit

Psychology (CIS)

Course# 255

Grades 11-12

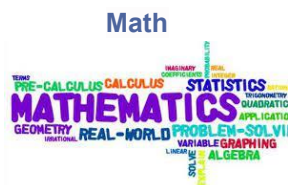
Prerequisite: Qualify for Concurrent Enrollment

Career Pathway:

College Credit



Offered through SMSU. See page 26 for course qualifications. This course surveys content areas of general interest in psychology. Topics include major schools of thought in psychology, development, states of awareness, learning, memory, health and stress, personality, abnormal behavior, psychotherapy, and social issues.



Math

Data Analysis & Probability

Course# 301

Grades 9

Prerequisite: Algebra (8)/Teacher Placement

Career Pathway: **Engineering & Manufacturing Ag, Food & Natural Resources**

Arts, Communications & Information Systems Human Services & Education

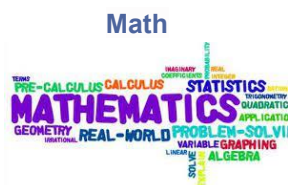
Business Mgmt & Administration Health Science

✓ **Required**



Year
2 Credits

Students taking this course will be able to display and analyze data using various measures associated with data to draw conclusions, identify trends, describe relationships, calculate the correlation coefficient and find models representing the line of best fit to make predictions. Students will be able to apply probability concepts to solve real-world and mathematical problems. Students will be able to represent real-world and mathematical situations using equations and inequalities, including Linear Programming, and explain results in the original context. Students will also review mathematical concepts necessary for Alg 2.



Math

Algebra 2 (10-12)

Course# 302

Grades 10-12

Prerequisite: Algebra 1

Career Pathway: **Engineering & Manufacturing Ag, Food & Natural Resources**

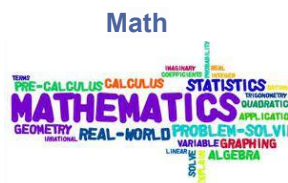
Arts, Communications & Information Systems Business Mgmt & Administration

✓ **Required**



Year
2 Credits

This course provides a continuation of the basic algebraic concepts learned in Algebra I. This course will expand on algebra concepts both in theory and application. In addition to the study of the basic algebraic concepts of simplifying algebraic expressions and solving algebra equations and inequalities, the students will study irrational numbers, complex numbers, functions and relations, polynomials, sequences and series, and quadratic functions.



Math

Geometry 11-12

Course# 303

Grades 11-12

Prerequisite: Algebra (1), Algebra 2

Career Pathway: **Engineering & Manufacturing Ag, Food & Natural Resources**

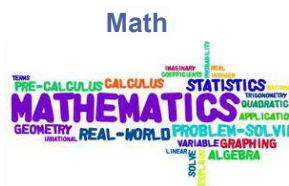
Arts, Communications & Information Systems Business Mgmt & Administration

✓ **Required**



Year
2 Credits

The course includes the study of points, lines, planes, polygons, angles, solids, and their properties. The major emphasis is to prove objects congruent and similar and to find area and volume of 2-D and 3-D figures. Other concepts to be studied include elementary logic, postulates, theorems, similarity and proportions. Trigonometry, coordinate geometry and transformations are introduced. Students will be able to calculate the measurements of plane and solid geometric figures and know that physical measurements depend on the choice of units and approximations. They will know and apply properties of geometric figures to solve real world problems and to logically justify their results.



Math

Husky Math Course# 315 Grades 10-11

Prerequisite: Data Analysis & Probability

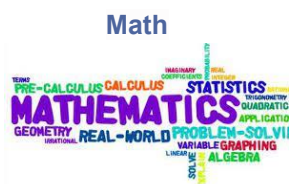
Career Pathway: *Engineering & Manufacturing Ag, Food & Natural Resources*
Arts, Communications & Information Systems Human Services & Education
Business Mgmt & Administration Health Science

✓ Required



Semester
1 Credit

Students taking this course will review and enrich their understanding of the Minnesota math standards. They will cover topics in Algebra, Geometry, Data Analysis, Probability, and Statistics. They will receive instruction on linear functions consisting of slope, slope intercept formula, function notation, graphs and inequalities. They will also receive instruction on quadratic functions consisting of intercepts, maximums, minimums, intervals of increase and decrease, standard form and vertex form. They will also learn about non-linear and non-quadratic functions consisting of absolute value, piecewise, cubic, square root and translation of functions. Solving systems of equations and inequalities will be reviewed. Topics in statistics like measures of central tendencies, distribution, and standard deviation will also be covered.



Math

Algebra 2 (GR 9) Course# 331 Grades 9

Prerequisite: Algebra 1

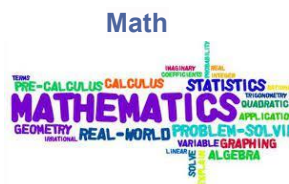
Career Pathway: *Engineering & Manufacturing Ag, Food & Natural Resources*
Arts, Communications & Information Systems Business Mgmt & Administration

✓ Required



Year
2 Credits

This course provides a continuation of the basic algebraic concepts learned in Algebra I. The course is *faster* paced and more in-depth than the regular Advanced Algebra course. This course will expand on algebra concepts both in theory and application. In addition to the study of the basic algebraic concepts of simplifying algebraic expressions and solving algebra equations and inequalities, the students will study irrational numbers, complex numbers, functions and relations, polynomials, sequences and series, and quadratic functions.



Math

Geometry 10 Course# 332 Grades 10

Prerequisite: Algebra 2 (Gr 9)

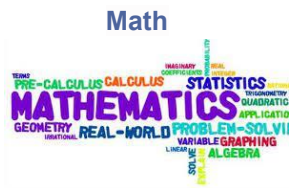
Career Pathway: *Engineering & Manufacturing Ag, Food & Natural Resources*
Arts, Communications & Information Systems Business Mgmt & Administration

✓ Required



Year
2 Credits

The course is *faster*-paced and more in-depth than the regular Geometry course. The course includes the study of points, lines, planes, polygons, angles, solids, and their properties. The major emphasis is to prove objects congruent and similar. Areas including elementary logic, postulates, theorems, similarity and proportions are developed. Trigonometry, coordinate geometry and transformations are introduced. Students will calculate measures of plane and solid figures and know that physical measurement depends on the choice of units. They will know and apply properties of geometry to solve real world problems and be able to logically justify their results.



Math

Calculus 1 (CIS)

Course# 334

Grades 12

Prerequisite: Algebra 2, Geometry, Pre-Calc/Qualify for Concurrent Enrollment

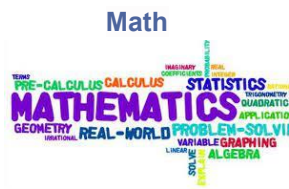
Career Pathway: *Engineering & Manufacturing*

College Credit



Year
2 Credits

Introduces the basic ideas of differential and integral calculus: topics include limits and continuity, differentiation of functions, applications of derivatives, definite and indefinite integrals, the fundamental theorems of integral calculus, numerical integration, and applications of definite integrals. This course will provide an excellent opportunity for the student to bridge the gap between high school math and college math.



Math

Pre-Calculus (CIS)

Course# 336

Grades 11-12

Prerequisite: Algebra 2 and Geometry/Qualify for Concurrent Enrollment

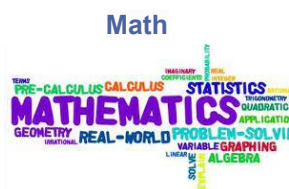
Career Pathway: *Engineering & Manufacturing*

College Credit



Year
2 Credits

Students will study mathematics needed for calculus. Concepts are presented and explored from symbolic, graphical, and numerical perspectives. Basic concepts covered include systems of equations of two and several variables, sequences and series, matrices, and complex numbers. Functions will be analyzed including polynomial functions, rational functions, radical functions, piecewise functions, compositions, inverse functions and combinations of functions. Students will apply concepts and solve problems involving a variety of functions, exponential and logarithmic functions, conic sections and vectors.



Math

Basic Data Analysis & Probability

Course# 342

Grades 9

Prerequisite: Teacher Placement

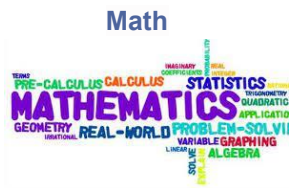
Career Pathway: *Engineering & Manufacturing Ag, Food & Natural Resources Arts, Communications & Information Systems Human Services & Education Business Mgmt & Administration Health Science*

✓ Required



Year
2 Credits

Students taking this course will be able to display and analyze data using various measures associated with data to draw conclusions, identify trends, describe relationships, calculate the correlation coefficient and find models representing the line of best fit to make predictions. Students will be able to apply probability concepts to solve real-world and mathematical problems. Students will be able to represent real-world and mathematical situations using equations and inequalities, including Linear Programming, and explain results in the original context. This course allows for a more applied look at mathematics and review of concepts necessary for Basic Algebra 2..



Math

Basic Geometry

Course# 343

Grades 11-12

Prerequisite: Basic Alg. Basic Date & Prob

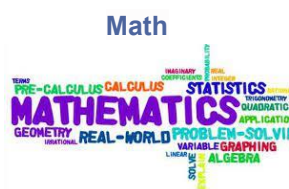
Career Pathway: **Engineering & Manufacturing Ag, Food & Natural Resources**
Arts, Communications & Information Systems Business Mgmt & Administration

✓ **Required**



Year
2 Credits

Students taking this course will be able to calculate measurements of plane and solid geometry figures; know that physical measurements depend on the choice of a unit and that are approximations. They will be able to construct logical arguments based on axioms, definitions, and theorems, to prove theorems and other results in geometry. They will also know and apply properties of geometric figures to real world and mathematical problems and be able to logically justify results.



Math

Basic Algebra 2 (10)

Course# 352

Grades 10

Prerequisite: Basic Data Analysis & Prob

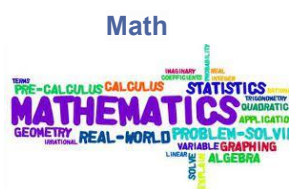
Career Pathway: **Engineering & Manufacturing Ag, Food & Natural Resources**
Arts, Communications & Information Systems Business Mgmt & Administration

✓ **Required**



Year
2 Credits

This class will take the Algebra 9-12 standards and break them apart into smaller more management pieces. It will introduce what each standard is about and begin to work with the simplest parts of each algebra standard. Most of the class work will be done in class and in small groups. The class is designed to cover the most basic parts of each Minnesota high school algebra standard.



Math

Algebra 3 (CIS)

Course# 355

Grades 11-12

Prerequisite: Algebra 2/Qualify for Concurrent Enrollment

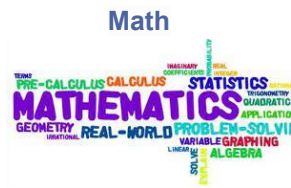
Career Pathway: **Engineering & Manufacturing Business Mgmt & Administration**

College Credit



Semester
1 Credit

Students will review the fundamental operations of higher algebra integrated with a functions approach. Studies include the Cartesian plane and graphs, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, graphs and transformations, systems of equalities and inequalities, matrices and determinants, and sequences and series. Students will apply concepts to solve problems and model data.



Math

Statistics (CIS)

Course# 356

Grades 11-12

Prerequisite: Algebra 2/Qualify for Concurrent Enrollment

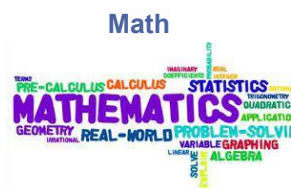
Career Pathway: **Engineering & Manufacturing Ag, Food & Natural Resources**
Arts, Communications & Information Systems Business Mgmt & Administration

College Credit



Semester
1 Credit

Students will study the concepts of descriptive and inferential statistics, elementary combinatorics, and probability.. Some of the topics addressed will be data sampling, data displays, distribution analysis, and measurement of error. Probability concepts will be applied to distributions of data. Applications for this course will cover a wide range of career choices such as sociology, political science, psychology, medicine, engineering, and other scientific fields. Computers and graphing calculators will be used extensively.



Math

Geometry in Construction

Course# 380

Grades 10-12

Prerequisite: C or better in Algebra 1 or Data Analysis & Prob

Career Pathway: **Engineering & Manufacturing Ag, Food & Natural Resources**
Arts, Communications & Information Systems Business Mgmt & Administration

Elective



Year
2 Credits

In integrated geometry and construction students will be in a team taught class.

- * Course is recommended for students interested in pre engineering, architecture, construction management, interior design, landscape architecture, construction trades, and surveying.
- * Learn safety, problem solving, machine and tool use, and drawing interpretation? Have minimal or no previous construction experience
- * Be exposed to practical skills in building and carpentry trades by constructing the "Cabin House" project
- * Use various alternative materials, in addition to wood
- * Understand and exploit the interdependence between algebra and geometry
- * Learn core set of geometry facts
- * Use coordinate geometry in the study of area, perimeter, volume, transformations, congruence, Pythagorean theorem, similar figures, trigonometry, quadrilateral properties, circle properties, logic, and functions.



Year
2 Credits

Biology
Course# 402
Grades 10-12
Prerequisite: Earth and Space Science
Career Pathway: Ag, Food & Natural Resources Health Science

✓ Required



Biology is a year-long course designed to teach students about the basics of life and life processes on Earth. The following topics will be the focus of this course:

- I. Scientific Thinking: Students will examine the scientific method as well as explore the science of life. Students will relate the study of biology to their everyday life.
- II. Cellular Biology: We will discuss how biology relates to chemistry, the cell's structure and function, explore how the cell creates energy and performs essential functions, and study how the cell reproduces.
- III. Genetics: We will examine the mechanisms of genetics, including the roles of DNA and RNA. We will also discuss applications of genetics, such as genetic engineering, to see how these technologies may impact our future.
- IV. Evolution: We will examine the process of natural selection and discuss the mechanisms that lead to new species. We will also explore how evolution relates to biodiversity and community health.
- V. Ecology: We will discuss energy and nutrients and how they cycle through the biosphere. We will also explore population dynamics in ecosystems and examine how humans are impacting the environment.



Year
2 Credits

Chemistry
Course# 403
Grades 11-12
Prerequisite: Algebra 1
Career Pathway: Health Science

✓ Required



Chemistry is the study of the combination or rearrangement of elemental matter. By exploring the interaction of these elements, chemists have been able to solve a variety of problems to make modern life what it is today. We grow more food, have better medicines, burn fuel more efficiently, and have several other conveniences because of chemistry.

This course will explore concepts of chemistry such as: how the subatomic make-up of atoms causes them to behave in specific ways, determining not only how chemicals react but how well a reaction occurs, and the energy produced by a reaction or needed to cause a reaction.

Chemistry is a yearlong course open to juniors seeking to fulfill their third science requirement. The primary math students will need to be able to do arithmetic. However, this math requires students to be able to keep track of numbers, much as they do in Algebra 1. Students will also use literacy skills to interpret and describe chemical reactions. Students will use their creativity to imagine the world too small to see by developing models of chemical phenomena.

Finally, this course will emphasize developing and having a problem-solving mindset. Students should approach learning with a mindset not of what information do I need to retain, but how can I apply what I already know to new situations.



Semester
1 Credit

Forensic Science
Course# 405
Grades 11-12
Prerequisite: Biology
Career Pathway: Human Services & Education Health Science

Elective



Forensic Science is a semester-long course that explores the science of our everyday lives with a focus on investigating crimes. This course is intended to provide students with an introduction to the understanding and practical application of forensic science techniques including the following: fingerprinting, forensic DNA typing, bloodstain pattern analysis, forensic entomology, forensic toxicology, drugs, and poisons, forensic anthropology, crime scene investigation, evidence collection and examination, ballistics, forensics and the law, and career opportunities in forensics. The final project will be to create and solve a crime scene simulation.



Science

Semester
1 Credit

Zoology

Course# 406

Grades 11-12

Prerequisite: Biology

Career Pathway: Ag, Food & Natural Resources

Elective



Zoology is the study of animals. The purpose of this course is to introduce students to the Animal Kingdom. Students will study the structure, function, and evolution of the invertebrate phyla and the vertebrate classes. Students will also study animal adaptations, endangered species, animal population studies, and animal behavior. A majority of the course will be spent studying the vertebrate animal classes including the following: fish, amphibians, reptiles, birds, and the mammalian orders. Supplemental coursework will include animal dissection, caring for small animals in the laboratory, and observing live animals in both the field and the laboratory.



Science

Semester
1 Credit

Geology of National Parks

Course# 407

Grades 10-12

Prerequisite: Biology

Career Pathway: Ag, Food & Natural Resources

Elective



Explore Earth's natural wonders in this science elective! Delve into the geologic marvels, vibrant wildlife habitats, and diverse plant life of National and State Parks and Forests through hands-on activities. Elevate your learning with a field trip to a state or national park to discover and explore the amazing landscapes of the United States.



Science

Year
2 Credits

Earth & Space Science

Course# 412

Grades 9

Prerequisite: None

Career Pathway: Ag, Food & Natural Resources

✓ Required



This course will cover Earth and Space science. Topics will be Earth systems and processes, Human impacts and sustainability in Earth systems, Earth's place in the universe, and weather and climate. Students will explore phenomena, look at data and evidence to solve problems, develop possible explanations and design solutions, and communicate reasons and argue ideas to others. Basic math skills are needed. A basic calculator is required.



Science

Semester
1 Credit

Robotics

Course# 413

Grades 9-12

Prerequisite: None

Career Pathway: Engineering & Manufacturing

Elective



Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.



Year
2 Credits

Conceptual Physics

Course# 414

Grades 9-12

Prerequisite: None

Career Pathway: Engineering & Manufacturing

Elective



It is a requirement to take Chemistry, Chemistry in our World, or Conceptual Physics to graduate. This course is an exploration of the principles of physics with less of the math. Students will learn how physical laws of nature describe everyday situations from driving a car, to floating in a boat, to listening to music, or even simply turning on a light. The course will first spend time exploring mechanics, or the laws describing motion. Concepts such as sound, electricity and magnetism, and light will be built on this foundation. This is a yearlong course open to all high school students. This fulfills the school's third science requirement, though is not sufficient for many four year colleges. Students will need to be able to do basic arithmetic. Students will also embrace their creativity to design models that describe the physical world. Finally, students will be taught how to problem-solve and should be eager to go beyond collecting information, to applying what they know to solve new and unique problems.



Semester
1 Credit

Robotics 2

Course# 415

Grades 9-12

Prerequisite: Robotics

Career Pathway: Engineering & Manufacturing

Elective



In Robotics 2, students will delve into advanced robotic and automation technologies. Through hands-on projects, students apply the engineering design process to create prototypes, honing their skills for brand-new challenges and competitions not seen in Robotics 1.



Year
2 Credits

Chemistry in Our World

Course# 443

Grades 11-12

Prerequisite: Biology/Teacher Placement

Career Pathway: Health Science

ReqCredit Option



This year-long course is a basic investigation into the study of the composition, structures and properties of matter; the processes that this matter undergoes, and the energy that accompanies the process. Students will explore these topics in the context of laboratory and in class study and how they are applied to science and everyday living.

The goal of this course is to relate basic concepts in the science of chemistry to the world in which we live. Concepts will be related to the real world, including, but not limited to, the following: agriculture, industry, the environment, the human body, medicine/healthcare, and the home. Either this class or general chemistry is required.

Units of study include, but are not limited to: Measurement and calculations, atoms and the arrangement of a particle, chemical bonding, formulas and chemical reactions, the periodic table, states of matter, acids and bases, and organic and biochemistry



Year
2 Credits

Anatomy & Physiology (CIS)

Course# 455

Grades 11-12

Prerequisite: *Biology/Qualify for Concurrent Enrollment*

Career Pathway: *Health Science*

College Credit



*College credit may be available in this course through MN West. Prerequisites for this include a 78 or higher on the Reading Comprehension Accuplacer or a 21 or higher on the Reading ACT. To get credit for the second **semester**, **you must** complete the first semester. Class rank in high school is also taken into account.

This course is designed to familiarize the student with basic human structures and functions. It is geared **toward** students entering into the medical or advanced scientific fields. Students will learn how the human body is organized and how this organization helps it to function as a whole unit. Topics covered will include basic anatomical terminology and an in depth study of all of the eleven systems within the body. The course will be enhanced with a dissection and a trip to the SDSU anatomy lab to view their **cadavers**.



Semester
1 Credit

Principals of Biology 1 (CIS)

Course# 460

Grades 11-12

Prerequisite: *Physical Science and Bio*

Career Pathway: *Ag, Food & Natural Resources Health Science*

College Credit



Concurrent Enrollment Class. Prerequisite: Must be admitted to MN West and meet requirements for the class; B- or higher in JCC Biology. Investigates fundamental principles of biology with special emphasis on the composition of living things and living systems, the chemistry of living things, natural selection, cell biology, metabolism emphasizing bioenergetics and biosynthesis, the cell cycle, and genetics.



Semester
1 Credit

Principals of Biology 2 (CIS)

Course# 461

Grades 11-12

Prerequisite: *Principles of Biology I/Qualify for Concurrent Enrollment*

Career Pathway: *Ag, Food & Natural Resources Health Science*

College Credit



Must be admitted to MN West and meet requirements for the class and should have passed Principles of Biology I. 1 semester in length. Examines biological diversity and the basic mechanisms and concepts in organismal biology including a survey of life forms (viruses, bacteria, protists, fungi, plants and animals.) Additional topics will include taxonomy, classification, structure and function of the major groups of plants and animals. Concurrent Enrollment Class.



Semester
1 Credit

Medical Terminology (CIS)

Course# 465

Grades 11-12

Prerequisite: *Biology*

Career Pathway: *Health Science*

College Credit



*College credit may be available in this course through MN West. Prerequisites for this include a 78 or higher on the Reading Comprehension Accuplacer or a 21 or higher on the Reading ACT. To get credit for the second **semester**, **you must** complete the first semester. Class rank in high school is also taken into account.

Concurrent Enrollment Class. Must be admitted to MN West and meet requirements for the class; B- or higher in Biology. It provides students in any of the health science disciplines or pre-professional studies with working knowledge of the terminology used in the health professions and/or biology.

Health/Physical Ed



Semester
1 Credit

Weight Training for Girls

Course# 505

Grades 9-12

Prerequisite: None

Career Pathway: *Human Services & Education*

Elective



The emphasis in this course is on muscular strength, endurance, flexibility, and learning/safety. The core lifts in this course include squats, cleans, and bench press. Weight room safety, warm-up/cool down procedures, lifting technique and safety for all lifts, major muscle identification, and individual goal setting are all important components in this course. Students will also learn different types of yoga, Pilates, Zumba and other music lead fitness classes. In addition, students will monitor and improve their fitness levels by participating in the Fitnessgram assessments throughout the semester.

Health/Physical Ed



Semester
1 Credit

Life Fitness & Weight Training 3

Course# 523

Grades 9-12

Prerequisite: None

Career Pathway: *Human Services & Education*

Elective



The focus of this class is to improve or maintain a healthy fitness level. Students will work on muscular and cardiovascular strength and endurance. They will have opportunities to choose physical activities that they enjoy that allow them to live a healthy life. Students that choose this class will be expected to be dressed appropriately and participate in physical activities every day.

Health/Physical Ed



Semester
1 Credit

Life Fitness & Weight Training 4

Course# 524

Grades 9-12

Prerequisite: None

Career Pathway: *Human Services & Education*

Elective



The focus of this class is to improve or maintain a healthy fitness level. Students will work on muscular and cardiovascular strength and endurance. They will have opportunities to choose physical activities that they enjoy that allow them to live a healthy life. Students that choose this class will be expected to be dressed appropriately and participate in physical activities every day.

Health/Physical Ed



Year
1 Credit

Physical Education 9 **Course# 550** **Grades 9** **Prerequisite: None** **Career Pathway:**

✓ **Required**



In Physical Education 9 we will provide a curriculum where students can apply the knowledge, skills and confidence learned, in a variety of activities, to lead a healthy and active lifestyle now and beyond graduation. Our Department's focus will be to provide instruction based on the ninth grade benchmarks within the five National Physical Education Standards which are:

- * Standard 1: The physically literate individual demonstrates competency in a variety of motor skills and movement patterns.
- * Standard 2: The physically literate individual applies knowledge of concepts, principles, strategies and tactics related to movement and performance.
- * Standard 3: The physically literate individual demonstrates the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness.
- * Standard 4: The physically literate individual exhibits responsible personal and social behavior that respects self and others.
- * Standard 5: The physically literate individual recognizes the value of physical activity for health, enjoyment, challenge, self-expression and/or social interaction.

Health/Physical Ed



Year
1 Credit

Health 9 **Course# 560** **Grades 9** **Prerequisite: None** **Career Pathway:**

✓ **Required**



During Health 9, students will be given opportunities to apply the knowledge, skills and confidence **learned** in a variety of activities, to lead a healthy and active lifestyle now and beyond graduation. Students will participate in a wide variety of individual and small group activities to learn about current health topics. We will provide instruction based on the benchmarks for ninth grade within the eight National Health Standards:

- * Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.
- * Standard 2: Students will analyze the influence of family, peers, culture, media, technology, and other factors on health behaviors.
- * Standard 3: Students will demonstrate the ability to access valid information, products, and services to enhance health.
- * Standard 4: Students will demonstrate the ability to use interpersonal communication skills to enhance health and avoid or reduce health risks.
- * Standard 5: Students will demonstrate the ability to use decision-making skills to enhance health.
- * Standard 6: Students will demonstrate the ability to use goal-setting skills to enhance health.
- * Standard 7: Students will demonstrate the ability to practice health-enhancing behaviors and avoid or reduce health risks.
- * Standard 8: Students will demonstrate the ability to advocate for personal, family and community health.

Students will participate in a wide variety of individual and small group activities to learn about current health topics. Students will examine their lifestyles, select goals and make plans to achieve and maintain a healthy lifestyle. The basis of this class is the Health Teacher curriculum.

Health/Physical Ed



Year
1 Credit

Physical Education 10 **Course# 570** **Grades 10** **Prerequisite: Phy-Ed 9** **Career Pathway:**

✓ **Required**



In Physical Education 10 we will provide a curriculum where students can apply the knowledge, skills and confidence learned, in a variety of activities, to lead a healthy and active lifestyle now and beyond graduation. Our Department's focus will be to provide instruction based on the tenth grade benchmarks within the five National Physical Education Standards which are:

- * Standard 1: The physically literate individual demonstrates competency in a variety of motor skills and movement patterns.
- * Standard 2: The physically literate individual applies knowledge of concepts, principles, strategies and tactics related to movement and performance.
- * Standard 3: The physically literate individual demonstrates the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness.
- * Standard 4: The physically literate individual exhibits responsible personal and social behavior that respects self and others.
- * Standard 5: The physically literate individual recognizes the value of physical activity for health, enjoyment, challenge, self-expression and/or social interaction.

Health/Physical Ed



Year
1 Credit

Health 10 **Course# 580** **Grades 10** **Prerequisite: Health 9** **Career Pathway:**

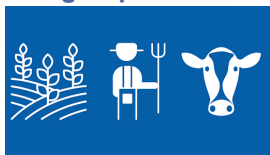
✓ **Required**



During Health 10, students will be given opportunities to apply the knowledge, skills and confidence learned in a variety of activities, to lead a healthy and active lifestyle now and beyond graduation. Students will participate in a wide variety of individual and small group activities to learn about current health topics. We will provide instruction based on the benchmarks for tenth grade within the eight National Health Standards:

- * Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.
- * Standard 2: Students will analyze the influence of family, peers, culture, media, technology, and other factors on health behaviors
- * Standard 3: Students will demonstrate the ability to access valid information, products, and services to enhance health.
- * Standard 4: Students will demonstrate the ability to use interpersonal communication skills to enhance health and avoid or reduce health risks.
- * Standard 5: Students will demonstrate the ability to use decision-making skills to enhance health.
- * Standard 6: Students will demonstrate the ability to use goal-setting skills to enhance health.
- * Standard 7: Students will demonstrate the ability to practice health-enhancing behaviors and avoid or reduce health risks.
- * Standard 8: Students will demonstrate the ability to advocate for personal, family and community health.

Ag Department



Year
2 Credits

Exploring Agriculture

Course# 1101

Grades 9

Prerequisite: None

Career Pathway: Ag, Food & Natural Resources

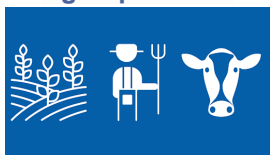
Elective



Exploring Agriculture is designed to introduce students to the diverse world of agriculture. Through a combination of classroom instruction, hands-on activities, project based learning and opportunities to develop leadership skills, students will gain an understanding of a wide variety of agricultural principles and practices including: leadership skills, FFA, record keeping, animal science, food science, career and technical education, plant science and soil science.

Note: By the end of the course, students will not only have a broad understanding of the agricultural industry but also gain valuable leadership skills. This course serves as a foundation for students interested in pursuing further studies or careers in agriculture, food, environmental sciences, natural resource sciences and career and technical education..

Ag Department



Semester
1 Credit

Fees \$25

Ag Foods, 10th Grade

Course# 1103

Grades 10

Prerequisite: None

Career Pathway: Ag, Food & Natural Resources

Elective



Ag Foods, 10th Grade is a course designed specifically for our 10th grade students as an introduction to connecting the farm to the table. Students will explore the interconnected worlds of agriculture and culinary arts. This hands-on course integrates knowledge of food production and culinary skills, the importance of supporting local food systems and fosters an understanding of the entire food supply chain.

Note: Throughout the course, students will actively participate in cooking labs and collaborative projects that emphasize the connection between agriculture and culinary arts. Assessments may include projects, tests and presentations.

Ag Department



Semester
1 Credit

Computer Applications

Course# 1104

Grades 9-12

Prerequisite: None

**Career Pathway: Engineering & Manufacturing Ag, Food & Natural Resources
Business Mgmt & Administration**

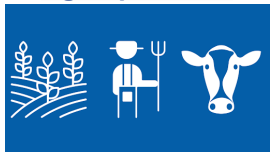
Elective



The High School Computer Applications course is designed to provide students with practical skills and knowledge in utilizing computer software for various applications. The course focuses on developing proficiency in popular productivity tools, fostering digital literacy, and enhancing problem-solving abilities. Students will engage in hands-on projects to apply their skills in real-world scenarios, preparing them for academic, professional, and personal tasks that require computer proficiency.

Note: This Computer Applications course aims to empower students with the essential skills needed to navigate and excel in today's digital landscape. By gaining proficiency in a variety of software applications, students will be well-equipped to meet the technological demands of both their academic and professional endeavors.

Ag Department



Semester
1 Credit

Accounting 1

Course# 1105

Grades 11-12

Prerequisite: None

Career Pathway: *Business Mgmt & Administration*

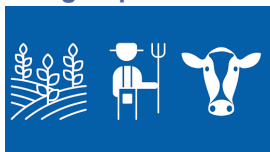
Elective



This accounting course provides students with a fundamental understanding of accounting principles and practices. The course is designed to introduce students to the basics of financial accounting and lay the foundation for further studies in business, finance, and accounting. Emphasis is placed on developing essential skills in recording, summarizing, and interpreting financial information.

Note: Throughout the course, students will engage in hands-on activities and business simulations to reinforce their understanding of accounting concepts. Critical thinking, problem-solving, and communication skills will be emphasized, preparing students for both further academic pursuits and potential careers in accounting and related fields.

Ag Department



Semester
1 Credit

Success

Course# 1107

Grades 11-12

Prerequisite: None

Career Pathway: *Ag, Food & Natural Resources*

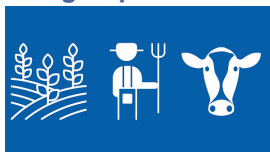
Elective



The Success course is designed to equip students with the practical skills and knowledge necessary for a successful transition to independent living. The course focuses on essential life skills, financial literacy, an introduction to child development, personal development, insurance information and workplace skills, preparing students to navigate the challenges and responsibilities associated with adulthood. Through interactive lessons, real-world scenarios, and hands-on activities, students will develop the skills needed to thrive independently.

Note: By the end of the course, students will have gained a comprehensive set of skills necessary for independent living, enhancing their confidence and readiness for the challenges of adulthood.

Ag Department



Semester
1 Credit

Survivor

Course# 1108

Grades 11-12

Prerequisite: None

Career Pathway: *Ag, Food & Natural Resources*

Elective



The Survivor course is designed to empower students with essential life skills related to the care, maintenance, and repair of their homes and automobiles. This hands-on course provides practical knowledge, fostering a sense of responsibility and self-sufficiency in managing one's living environment. Through interactive lessons, practical workshops, and real-world scenarios, students will acquire the skills needed to maintain a safe and functional living space.

Note: By the end of the course, students will have acquired valuable skills in home and auto maintenance, including basic electrical knowledge. This integrated course provides a practical foundation for independent living and equips students with skills applicable to various aspects of adult life.

Ag Department



Semester
1 Credit

Small Engines

Course# 1114

Grades 10-12

Prerequisite: None

Career Pathway: Ag, Food & Natural Resources

Elective



This high school course in Small Engines Technology is designed to provide students with a comprehensive understanding of small engine systems and maintenance. Through a combination of theoretical knowledge and hands-on practical experiences, students will develop the skills necessary to troubleshoot, repair, and maintain various small engines commonly found in power equipment

Ag Department



Semester
1 Credit

Wildlife Management

Course# 1119

Grades 11-12

Prerequisite: None

Career Pathway: Ag, Food & Natural Resources

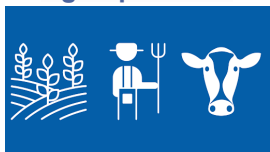
Elective



The High School Wildlife Management course with a focus on Minnesota's wildlife aims to immerse students in the diverse ecosystems and species found within the state. Through a combination of classroom learning, field studies, and practical experiences, students will explore the principles of wildlife management, conservation, and habitat restoration specific to Minnesota's unique environment. This course provides a foundation for understanding the importance of preserving and managing wildlife populations for ecological balance and human well-being.

Note: This Wildlife Management course, tailored to Minnesota's rich biodiversity, aims to inspire students to appreciate and actively contribute to the conservation of the state's wildlife. By engaging in hands-on experiences and exploring local ecosystems, students will develop a deep understanding of wildlife management principles and gain the skills necessary to address real-world conservation challenges in their communities.

Ag Department



Semester
1 Credit

Fees \$25

Foods for Life

Course# 1121

Grades 11-12

Prerequisite: None

Career Pathway: Ag, Food & Natural Resources

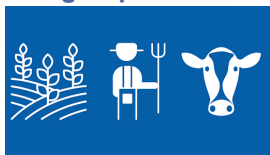
Elective



Foods for Life is a comprehensive course designed to provide students with essential knowledge and skills related to nutrition, meal preparation, and the art of cooking. Through hands-on experiences, students will explore the world of food and food consumerism, empowering them to make informed and health-conscious choices throughout their lives.

Note: Foods for Life not only equips students with culinary skills but also fosters an understanding of the importance of nutrition in maintaining a healthy lifestyle. This course prepares students for personal and family life, emphasizing the joy and creativity of cooking as well as the significance of making informed food choices.

Ag Department



Semester
1 Credit

Fees \$25

Creative Foods

Course# 1122

Grades 11-12

Prerequisite: None

Career Pathway: Ag, Food & Natural Resources

Elective

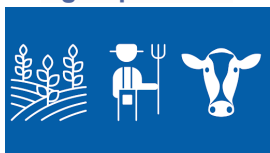


Students in this course will:

- Evaluate the role agriculture plays in your everyday life
- Explore Careers related to the food industry
- Understand the difference between a food allergy and a food intolerance.
- Gain an appreciation for foods around the world
- Practice and implement food marketing skills
- Compete in food challenges
- Chili Cook-Off
- Chopped
- Cupcake Wars
- Tour of Tables
- State Fair Food

As the United States population continues to rise, so does the demand for new food products. This class will open up an opportunity to be creative with food.

Ag Department



Semester
1 Credit

Fees \$25

Intro to Welding

Course# 1124

Grades 9-12

Prerequisite: None

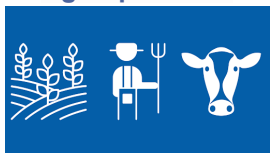
Career Pathway: Engineering & Manufacturing Ag, Food & Natural Resources

Elective



This course is designed to provide students with a fundamental understanding of welding techniques and processes. Through a combination of foundational knowledge and hands-on practical experience, students will develop the skills necessary to safely and effectively perform basic welding tasks. The course will cover various welding methods, safety procedures, equipment usage and the principles of metallurgy.

Ag Department



Semester
1 Credit

Fees \$25

Technical Welding

Course# 1125

Grades 9-12

Prerequisite: Intro to Welding

Career Pathway: Engineering & Manufacturing Ag, Food & Natural Resources

Elective



This course is designed to build upon the foundational skills acquired in the Introduction to Welding course. Students will dive deeper into the technical aspects of welding, exploring advanced techniques, materials, and applications. The course emphasizes precision, quality control, and the integration of technology in modern welding processes.

Ag Department



Semester
1 Credit

Fees \$25

Metal Fabrication

Course# 1126

Grades 9-12

Prerequisite: Intro to Welding

Career Pathway: **Engineering & Manufacturing** Ag, Food & Natural Resources

Elective



This hands-on course is designed to introduce students to the art and science of metal fabrication. From conceptualization to creation, students will explore various techniques and processes involved in shaping and assembling metal to create functional and aesthetically pleasing structures. Emphasis will be placed on safety, precision, and the development of practical skills essential for careers in metalworking.

Ag Department



Semester
1 Credit

Work Based Learning

Course# 1128

Grades 11-12

Prerequisite: None

Career Pathway: **Engineering & Manufacturing** Ag, Food & Natural Resources
Arts, Communications & Information Systems Human Services & Education
Business Mgmt & Administration **Health Science**

Elective



The "Work-Based Learning" course is designed to provide high school students with real-world experiences, preparing them for the transition from the classroom to the workplace. This course integrates learned skills with practical application, offering students the opportunity to gain hands-on experience, develop professional skills, and explore potential career paths.

Note: Participation in this course WILL involve off-campus activities, such as internships or site visits, and students will need to comply with workplace rules and regulations during these experiences.

Ag Department



Semester
1 Credit

Fees \$25

Woodworking Fundamentals

Course# 1129

Grades 10-12

Prerequisite: None

Career Pathway: **Engineering & Manufacturing** Ag, Food & Natural Resources

Elective



Woodworking Fundamentals is an introductory course designed to provide students with essential skills and knowledge in the art and craft of woodworking. This hands-on course emphasizes the foundational techniques necessary for successful and safe woodworking projects. Students will explore the principles of wood selection, measurement, joinery, and finishing.

Note: Woodworking Fundamentals serves as a foundational course for those interested in pursuing more advanced woodworking or related trades in the future. Successful completion of this course will provide students with a solid understanding of woodworking basics and the confidence to tackle more complex projects.

Ag Department



Semester
1 Credit

Fees \$25

Woodworking & Design

Course# 1130

Grades 10-12

Prerequisite: *Woodworking Fundamentals*

Career Pathway: *Engineering & Manufacturing Ag, Food & Natural Resources*

Elective



Woodworking and Design is an engaging course that combines the principles of woodworking craftsmanship with the creative elements of design. This hands-on class encourages students to explore their artistic side while developing advanced woodworking skills. Throughout the course, students will merge traditional woodworking techniques with modern design concepts to create functional and aesthetically pleasing projects.

Ag Department



Semester
1 Credit

Girls in the Shop

Course# 1132

Grades 10-12

Prerequisite: *None*

Career Pathway: *Engineering & Manufacturing Ag, Food & Natural Resources*

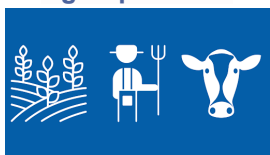
Elective



Prerequisites: None. This course is open to all students with an interest in woodworking, regardless of prior experience.

This course is designed to empower and engage female students in the field of shop and hands-on technical skills. It aims to provide a supportive environment for girls interested in woodworking, metalworking, and other shop-related activities. Students will develop practical skills, gain confidence in using various tools and equipment, and explore potential career paths in related industries.

Ag Department



Semester
1 Credit

Work & Career Exploration

Course# 1133

Grades 11-12

Prerequisite: *None*

Career Pathway: *Engineering & Manufacturing Ag, Food & Natural Resources
Arts, Communications & Information Systems Human Services & Education
Business Mgmt & Administration Health Science*

Elective



The "Work-Based Learning" course is designed to provide high school students with real-world experiences, preparing them for the transition from the classroom to the workplace. This course integrates learned skills with practical application, offering students the opportunity to gain hands-on experience, develop professional skills, and explore potential career paths.

Note: This course encourages students to actively engage in career exploration. Curriculum will involve off-campus activities such as job shadowing and interactions with industry professionals. Students will be expected to approach the course with an open mind and a willingness to explore various career possibilities.

Ag Department



**Semester
1 Credit**

Life in the Barn

Course# 1137

Grades 11-12

Prerequisite: None

Career Pathway: Ag, Food & Natural Resources

Elective



This course is an introduction to animal science with an emphasis on the dairy, beef, swine, sheep and goat industries. Topics will include animal welfare, health, breeding, reproduction, care, digestion and management.

Ag Department



**Semester
1 Credit**

CADD - Computer Aided Drafting & Design

Course# 1140

Grades 11-12

Prerequisite: None

Career Pathway: Engineering & Manufacturing Ag, Food & Natural Resources

Elective



This course provides students with a broad introduction into 2-dimensional and 3-dimensional Computer-Aided Design (CADD) and modeling with a focus on construction and architecture-specific applications. Students will learn how to use industry-leading CADD software programs. Understanding of these programs will allow students to model construction projects and to create and distribute basic, industry-standard architectural drawings. Students will learn how to 3D print their drawing to have physical prototypes.

Ag Department



**Semester
1 Credit**

Accounting 2

Course# 1144

Grades 11-12

Prerequisite: Accounting 1

Career Pathway: Business Mgmt & Administration

Elective



This accounting course is specifically tailored to provide students with a comprehensive understanding of accounting principles as they relate to merchandising businesses. Students will explore the unique aspects of financial accounting for companies engaged in buying and selling goods. The course aims to equip students with the knowledge and skills necessary to record, analyze, and interpret financial transactions in the context of a merchandising business.

Note: Throughout the course, students will engage in practical exercises, case studies, and simulations that replicate the accounting challenges faced by merchandising businesses. Emphasis will be placed on critical thinking and decision-making skills in the context of financial transactions specific to this business model. The course provides a foundation for those considering careers in the business, accounting and/or merchandising sector.

Ag Department



Year
2 Credits

Geometry in Construction

Course# 1180

Grades 9-12

Prerequisite: C or better in Algebra 1

Career Pathway: *Engineering & Manufacturing Ag, Food & Natural Resources*

Elective



- * Course is recommended for students interested in pre engineering, architecture, construction management, interior design, landscape architecture, construction trades, and surveying.
- * Learn safety, problem solving, machine and tool use, and drawing interpretation? Have minimal or no previous construction experience
- * Be exposed to practical skills in building and carpentry trades by constructing the "Cabin House" project
- * Use various alternative materials, in addition to wood
- * Understand and exploit the interdependence between algebra and geometry
- * Learn core set of geometry facts
- * Use coordinate geometry in the study of area, perimeter, volume, transformations, congruence, Pythagorean theorem, similar figures, trigonometry, quadrilateral properties, circle properties, logic, and functional

Ag Department



Semester
1 Credit

Landscape Design

Course# 1118 AG

Grades 10-12

Prerequisite: None

Career Pathway: *Ag, Food & Natural Resources*

Elective



This is a practical course whether one is choosing a career in this area or using it for one's own home.

- Design a local person's landscape plans
- Install those plans during the last weeks of the class
- Planting and care of landscape materials
- Learn basic plan science curriculum
- Work in the school greenhouse
- Identify trees, shrubs, plants, diseases and insects related to landscaping
- Lawn care techniques for lawns to ballfields.

Ag Department



Semester
1 Credit

Fees \$25

Floral Design

Course# 1120 AG

Grades 10-12

Prerequisite: None

Career Pathway: *Ag, Food & Natural Resources*

Elective



Floral Design is a dynamic and creative course that introduces students to the art and techniques of arranging flowers. This hands-on class provides students with the opportunity to explore the principles of floral design. Students will learn about the selection, care, and arrangement of flowers, as well as the cultural and historical significance of floral design.

Note: Floral Design provides students with a unique opportunity to express creativity through the art of flower arrangement. Whether pursuing a career in floral design or simply exploring a new form of artistic expression, this course equips students with valuable skills and insights into the world of floristry.



Business

Intro to Business

Course# 1605

Grades 9-12

Prerequisite: None

Career Pathway: *Business Mgmt & Administration*



Elective

**Semester
1 Credit**

This course is designed to introduce students to the study of a business that centers around economics, business goals, management, and risk. Students will also gain valuable skills in business communication practices while developing a foundation for career & technical and business education courses.



Business

Sales & Marketing

Course# 1606

Grades 9-12

Prerequisite: None

Career Pathway: *Business Mgmt & Administration*



Elective

**Semester
1 Credit**

This course provides a basic foundation for further study in marketing. It emphasizes the relationship of professional sales skills and marketing management techniques to successful profit and non-profit organizations as part of their overall marketing plan. We focus on the challenges of the sales communication process, both face-to-face and online, along with the distribution of products and services, including pricing, promotion, and buyer motivation.



Business

Personal Finance

Course# 1607

Grades 10-12

Prerequisite: None

Career Pathway: *Business Mgmt & Administration*



Elective

**Semester
1 Credit**

This course is designed to help you, the consumer, to become an intelligent decision-maker in a global economy. Students will learn how to manage their personal money. Topics include taxes, insurance, banking services, earnings, and deductions, establishing and using credit, money management, savings and investment, and understanding cultural diversity in our global economy. This class will utilize guest speakers during the semester speaking on various topics of discussion. Students will also complete a personal budgeting simulation.



Business

Sports Business Management

Course# 1609

Grades 10-12

Prerequisite: None

Career Pathway: *Business Mgmt & Administration*



Elective

**Semester
1 Credit**

Students will be introduced to the management functions and activities by focusing on sports and entertainment management. Students will make decisions on organizing, staffing and the planning of business activities. Current sports topics will be reviewed. Students will also complete a simulation in which they are the owners of a professional team and are responsible for the daily activities of that team.

Business



CEO-Creating Entrepreneurial Opportunities

Course# 1615

Grades 11-12

Prerequisite: None/Acceptance Required

Career Pathway: *Business Mgmt & Administration*

Elective



**Year
4 Credits**

This course requires an application and acceptance into the program prior to registration for the new school year. Interested students are invited to informational sessions led by the high school principal. CEO meets all five days a week from 7:30 am to 9:00 am. Rotating class locations are between Jackson, Mountain Lake, and Windom.

This is a year-long course designed to utilize partnerships that provide an overview of business development and processes. Our local business community partners with area schools to create project-based experiences for students by providing funding, expertise, meeting space, business tours, and one-on-one mentoring. Students visit area businesses, learn from guest speakers, participate in a class business, write business plans, and start and operate their own businesses. Business concepts learned through the experiential CEO class are critical; the 21st-century skills of problem-solving, teamwork, self-motivation, responsibility, higher-order thinking, communication, and inquiry are at the heart of a student's development throughout the course.



Fine Arts

Semester
1 Credit

Fees 25

Ceramics

Course# 1205

Grades 9-12

Prerequisite: None

Career Pathway: Arts, Communications & Information Systems



Elective

Only take this class if you are ready to get your hands dirty and create! In this class students will increase their knowledge of the various stages of clay, create many functional pieces to take home, and gain a solid understanding of the role of Ceramics and Pottery in our society. Students will be expected to learn and utilize common vocabulary, use all tools and equipment properly, participate in all processes of a Ceramics Studio and utilize original ideas. Initially, basic foundational projects will be required to demonstrate understanding of basic hand-building techniques required for success, such as; pinch pot, coil pot and slab vessels. A variety of finishing techniques will also be taught such as; underglazing, carving and slip trailing. An introduction to the Potters Wheel will also be provided. Ownership and responsibility of the artistic process will be taught and transferred to the students, who are expected to become self-motivated learners who can independently research ideas of their interest, ask questions, stretch / explore and experiment with new techniques and ideas.



Fine Arts

Semester
1 Credit

Fees \$25

Advanced Ceramics

Course# 1206

Grades 10-12

Prerequisite: Ceramics

Career Pathway: Arts, Communications & Information Systems



Elective

Independent, self-motivated, creative individuals that love to get their hands dirty with clay are encouraged to join this class! Ceramics is required as a prerequisite for this course, as we will build on foundational ceramics knowledge. Five Potters wheels will be available from the very beginning of the semester and students will be expected to utilize them throughout. Students will be required to be responsible for their own learning, and continually plan projects in consultation with the teacher that challenge each individual to the best of their ability. Students will be expected to always be busy, whether it is researching, experimenting, peer tutoring, recycling clay, building functional vessels or ceramic sculptures, throwing on the potter's wheel, or prepping required materials such as slip and glaze. As many pieces of Ceramics or Pottery that are created with a high level of craftsmanship and care will be fired to take home, at a minimum 7. The possibilities of what you can make are endless!



Fine Arts

Semester
1 Credit

Graphic Design

Course# 1207

Grades 9-12

Prerequisite: None

Career Pathway: Arts, Communications & Information Systems



Elective

In Graphic Design the students learn how to use Adobe Photoshop, which is one of the most powerful and used art tools in the world today. From your clothing patterns to the billboards you read on the highways to the graphics you see on your phone, computer, and television, Adobe Photoshop has had a hand in it. With the exposure to this dynamic software, the students have a million possibilities at their fingertips.

Every computer has Wacom digital tablets that are synced with the Adobe Photoshop software allowing the students to literally draw and create on the computer. This has broadened the possibilities even more. The computers have all been upgraded that allow the students to use the 3D graphics area as well making for exciting new looks at their artwork. A 3D printer that can make some amazing sculptures and pretty much anything you can think of is also available to make designs come to life! Some examples of some projects the students have done in Graphic Arts are:

-Cartoon Animation -Magazine Covers - Movie Posters - Digital Portraits - 3D printed Tool - 3D Printed Figure



Fine Arts

Semester
1 Credit

Fees \$25

Screen Printing Course# 1208 Grades 11-12

Prerequisite: Graphic Design with a C or higher

*Career Pathway: Arts, Communications & Information Systems Business
Mgmt & Administration*



Elective

Screen printing is an effective technique for creating bold designs that you want to repeat many times! Students who enroll in this course are expected to be responsible and independently motivated. Basic foundational art knowledge will be reviewed to create aesthetically pleasing designs using the Elements of Art and Principles of Design. Also as a whole group, a variety of printmaking techniques will also be explored such as Monoprinting, Gelli Printing and Lino Block Printing, to help students gain a better understanding of: Printmaking, design, stencil use and transfer. Collaborative student groups will also be utilized and encouraged throughout the semester to increase successful experiences. Screen Printing is a super specific process and many technical steps are required to experience success; primarily direct instruction will be taught in small-groups. Designs will be created with Chromebooks utilizing Adobe Photoshop software: Photopea.com. In the Screen Printing room students will be provided fabric to print designs on, and the art studio also has a sewing machine so designs can be utilized to customize personal items, such as backpacks and hats. One tee-shirt will be provided to print on as a cumulative project. Also at the end of the semester we will have a tie-dye party to further customize and personalize. Throughout the semester students are encouraged to bring in their own articles of clothing or textiles to print on and customize



Fine Arts

Semester
1 Credit

Video Gaming and Animation Course# 1209 Grades 9-12

Prerequisite: None

Career Pathway: Arts, Communications & Information Systems



Elective

In this course the students will be exposed to the other side of video games, the creating! Using Adobe Flash, along with Adobe Photoshop, the students will learn how to make their own video games and understand the functions of how a video game works. They will explore level design, character development, character design, animation sequence and much more! Who knows maybe this might be the starting point of an exciting career! We also learn the history of interactive gaming and the progress of technology.

Some examples of some projects the students have done in Video Game Developer:

--Flappy Bird - Space Invaders - Tower Defense - Platform Super Mario Bros. Game



Fine Arts

Semester
1 Credit

Fees \$25

Creative Drawing and Illustration

Course# 1210

Grades 9-12

Prerequisite: None

Career Pathway: Arts, Communications & Information Systems



Elective

In this course, the students are given a hardcover sketch book to journal any of their drawings and ideas. We explore several different mediums and styles of illustration. We use pencil, Ink, and draw digitally on the computer. We draw on paper and on found objects as well. The students pull themselves into other styles of art they may not have tried before. It is exciting to see how surprised the students are in themselves and the fantastic results that come out of pushing the limits of their drawing skills.

* The students are given various assignments from still life of objects, to figure drawing, to doing a black and white ink comic book character.

* Having experience illustrating children's books myself, I show them how to interpret words and stories into visual compositions. I also talk about the process of working with an author, a printing company, a distributor, and a marketing team.

* The students put together a pretty diverse and strong portfolio by the end of the semester.

Some examples of some projects the students have done in Drawing and Illustration are

- Comic Book Character with Ink
- Charcoal illustration
- Digital Vector Drawing



Fine Arts

Semester
1 Credit

Short Films and Cinema Appreciation

Course# 1213

Grades 9-12

Prerequisite: None

Career Pathway: Arts, Communications & Information Systems



Elective

In this class the students get to make a variety of videos in different genres. Using Final Cut Pro and their iPads, the students learn how to make short films. They will learn how to edit video, work with scripts, and film scenes for different video projects. We will watch various movies that are a part of the culture of cinema and reenact various scenes from those films as well.

There will be an opportunity to go to businesses in the Jackson area to do short video ads for Husky Live **Network** and the scoreboards.

A special event at the Jackson Historical Theater will allow the students to premiere their movies they make on the big screen at the end of the semester!

Some examples of some projects the students have done in Cinema and Video Production are:

- Commercial
- Product Ad
- Movie Trailer



Fine Arts

Semester
1 Credit

Fees \$25

Studio Art 1 **Course# 1217** **Grades 9-12**

Prerequisite: None

Career Pathway: Arts, Communications & Information Systems



Elective

This is the most basic, foundational Art course for JCC, art 101. Students will enter the classroom environment which is structured as an Art Studio and they are required to bring their own individual ideas, and the teachers role is to help with self-expression. Themes will also be utilized to help students develop the ability to independently make artistic choices. Over the semester students will be directly taught HOW to utilize techniques from a variety of media and required to try each media uniquely during the semester. A variety of 2D and 3D choice based centers will be utilized to help students find their voice and individual preferred media for self-expression, such as: drawing, painting, collage, printmaking, fiber arts, sculpture, ceramics and airbrushing. Students will also be directly taught foundational art concepts such as the utilization of the Elements of Art and Principles of Design to create aesthetically pleasing art. Art History will be referenced when applicable to help each individual along their own path of self-discovery as it is relatable to them.



Fine Arts

Semester
1 Credit

Fees \$25

Studio Art 2 **Course# 1218** **Grades 9-12**

Prerequisite: Studio Art 1/Fine Arts 1

Career Pathway: Arts, Communications & Information Systems



Elective

Students will expand on skills learned in Studio Art 1, and focus on independent art making and take ownership over their own learning in the Art Studio. Choice based centers will be utilized to aid students in developing their own personal style and ability to express themselves. To facilitate independent decision making and experience success in the creative process, Artistic Behaviors will be directly taught, such as; Developing Techniques, Observation, Reflection, Envision, Expression, Stretch and Explore new ideas, Engagement and Persistence, and Understanding our Art Community.

The teacher will serve as a creative leader and guide to help students along their own individual paths of self-discovery through creative making. Students will be expected to plan their own projects, based on Artistic Behaviors, and collaborate with others, including the teacher to challenge themselves. Success will be measured on engagement in the creative process. Students are encouraged to bring materials from home, and work on ideas from other classes to bring art out of the classroom and into their world!



Fine Arts

Semester
1 Credit

Fees \$25

Studio Painting **Course# 1219** **Grades 9-12**

Prerequisite: None

Career Pathway: Arts, Communications & Information Systems



Elective

In this class the students get a chance to paint canvas paintings. Experience with paint is recommended but not necessary. They will have a variety of different styles exposed to them to further their exploration in painting. They will work on different surfaces and sizes of projects. We will learn about current and past famous painters and their styles. The students will have a lot of freedom in their paintings and what they want to paint as well. Some examples of some projects the students have done in Studio Painting are: - Bob Ross Landscape - Van Gogh Style - Graffiti - Pop Art Tribute - Watercolor



Fine Arts

Semester
1 Credit

Fees \$25

Advanced Painting

Course# 1220

Grades 9-12

Prerequisite: Studio Painting

Career Pathway: Arts, Communications & Information Systems

Elective



Sign up for this class if you are independent and love to paint! We will build upon techniques and processes learned in Studio Painting. This course will be an opportunity to develop your own style.



Fine Arts

Semester
1 Credit

Fees \$25

Introduction to Sculpture

Course# 1222

Grades 10-12

Prerequisite: Studio Art 1/Fine Arts 1

Career Pathway: Arts, Communications & Information Systems

Elective



This is a very hands-on course where students will learn how to create 3-Dimensional Sculptures, once again they will need to have their own ideas for what they want to make. Students will be taught subtractive and additive sculptural methods and explore with a variety of 3D media such as; cardboard, paper mache, plaster, non-functional ceramics, wire, wood and other materials. Students will learn how to manipulate these materials and use sculpting tools safely. Students will create shallow relief Sculptures and larger sculptures that include armatures for support. Once again for this course, foundational art knowledge of the Elements of Art and Principles of Design will be key, to help students create aesthetically pleasing art. Students will also analyze and examine geometric, abstract and organic sculptures through reading, discussion and critique; to serve as inspiration for their own making.



Fine Arts

Semester
1 Credit

Studio Production

Course# 1230

Grades 10-12

Prerequisite: Short Film and Graphic Design

Career Pathway: Arts, Communications & Information Systems

Elective



Students will put together a broadcast set, various jobs in front of and behind the camera, such as camera operation, editing, lights, sound editing, script writing. Students will organize meetings and hold interviews to cover school events. "School News" via video will be shared with the student body and community bi-weekly. Students will learn positive social media marketing.



Fine Arts

Year
2 Credits

Concert Choir

Course# 1701

Grades 9-12

Prerequisite: None

Career Pathway: Arts, Communications & Information Systems

Elective



Concert Choir is a non-auditioned singing group in which all students are able to join with the prerequisite of prior choir experience or instructor permission. Concert Choir meets daily all year round. Choir students will participate in a choral setting singing songs in multi-part harmony according to ability and voice range. The music performed will be music from all periods and cultures and in a variety of languages including accompanied and a cappella songs. Music selections will enrich the singers' vocal techniques and musical concepts making this performing group a well-rounded experience.



Year
2 Credits

Concert Band
Course# 1702
Grades 10-12

Prerequisite: Previous experience/Instructor approval
Career Pathway: Arts, Communications & Information Systems



Students will continue their learning of musical terms, rhythms, keys, forms and cultures while increasing their proficiency on their instrument. Music will be selected to challenge students and to further enhance their level of ability and knowledge of styles, composers, history and cultures. Class time will be spent preparing for the many facets of Concert Band--concerts, pep band, public performances, large group contest. There will also be opportunities for students to participate in extra-curricular and enrichment activities, including Jazz Band, Solo & Ensemble Contest and partaking in the band and choir tour



Year
2 Credits

Band 9
Course# 1709
Grades 9

Prerequisite: Previous experience/Instructor approval
Career Pathway: Arts, Communications & Information Systems



Students will continue their learning of musical terms, rhythms, keys, forms and cultures while increasing their proficiency on their instrument. Music will be selected to challenge students and to further enhance their level of ability and knowledge of styles, composers, history and cultures. Class time will be spent preparing for the many facets of Concert Band--concerts, pep band, public performances. There will also be opportunities for students to participate in extra-curricular and enrichment activities, including Jazz Band, Solo & Ensemble Contest and partaking in the band and choir tour.



Semester
1 Credit

ACT Prep
Course# 1815
Grades 10-12
Prerequisite: None
Career Pathway:



The ACT Prep course is a focused program to prepare students for success in the ACT exam. Covering all four sections—English, Math, Reading, and Science—the course provides targeted lessons and practice sessions to enhance understanding, develop test-taking strategies, and improve time management.

Students receive in-depth instruction on key ACT content, focusing on mastering essential skills and solving complex problems. Practice exams help familiarize students with the test format and identify areas for improvement. Emphasis is on critical thinking, analysis, and effective communication.

By the end of the semester, students gain insights into the ACT, hone academic skills, and develop a personalized approach for optimal performance. This course supports students in achieving their best on the ACT—a crucial step in the college admissions process.



Fine Arts

Semester
1 Credit

Landscape Design

Course# 1118 FA

Grades 10-12

Prerequisite: None

Career Pathway: Ag, Food & Natural Resources



Elective

This is a practical course whether one is choosing a career in this area or using it for one's own home.

- Design a local person's landscape plans
- Install those plans during the last weeks of the class
- Planting and care of landscape materials
- Learn basic plant science curriculum
- Work in the school greenhouse
- Identify trees, shrubs, plants, diseases and insects related to landscaping
- Lawn care techniques for lawns to ballfields.



Fine Arts

Semester
1 Credit

Fees \$25

Floral Design

Course# 1120 FA

Grades 10-12

Prerequisite: None

Career Pathway: Ag, Food & Natural Resources



Elective

Floral Design is a dynamic and creative course that introduces students to the art and techniques of arranging flowers. This hands-on class provides students with the opportunity to explore the principles of floral design. Students will learn about the selection, care, and arrangement of flowers, as well as the cultural and historical significance of floral design.

Note: Floral Design provides students with a unique opportunity to express creativity through the art of flower arrangement. Whether pursuing a career in floral design or simply exploring a new form of artistic expression, this course equips students with valuable skills and insights into the world of floristry.

[illegible]

Year
2 Credits

Spanish 1
Course# 1501
Grades 9-12

Prerequisite: None

Career Pathway: **Engineering & Manufacturing** Ag, Food & Natural Resources
Arts, Communications & Information Systems Human Services & Education
Business Mgmt & Administration **Health Science**

Spanish class is an introduction to the study of the Spanish language and culture of Spanish-speaking countries and hispanic culture in the US. It allows students to perform the most basic functions of the language and to become familiar with some elements of its culture. Emphasis is placed on the development of the four skills of listening, reading, writing, and speaking in Spanish. Vocabulary and grammar are integrated throughout the course. Students learn how languages and cultures work by comparing Spanish language and culture(s) to their own. Spanish students are assessed on their proficiency (ability) in Spanish.

Class is mostly conducted in Spanish, students are expected to respond in Spanish as they are able. There is very little homework assigned for this class however there are many possibilities for Spanish practice outside of class which will help students achieve a higher proficiency. Active class participation is essential to positive progress in class. Students should expect to participate in whole class, small group, and independent activities. Students will monitor their progress using proficiency rubrics and a growth mind-set.

Year
2 Credits

Spanish 2
Course# 1502
Grades 10-12

Prerequisite: Spanish I (C or higher grade)

Career Pathway: *Engineering & Manufacturing Ag, Food & Natural Resources
Arts, Communications & Information Systems Human Services & Education
Business Mgmt & Administration Health Science*

Spanish II class is a continuation of the study of the Spanish language and culture of Spanish-speaking countries and hispanic culture in the US, begun during Spanish I. It allows students to perform the most basic functions of the language and to become familiar with some elements of its culture. Emphasis is placed on the development of the four skills of listening, reading, writing, and speaking in Spanish. Vocabulary and grammar are integrated throughout the course. Students learn how languages and cultures work by comparing Spanish language and culture(s) to their own.

Spanish students are assessed on their proficiency (ability) in Spanish. Class is mostly conducted in Spanish, students are expected to respond in Spanish as they are able. Students speaking Spanish becomes more important during Spanish II. There is very little homework assigned for this class however there are many possibilities for Spanish practice outside of class which will help students achieve a higher proficiency. Active class participation is essential to positive progress in class. Students should expect to participate in whole class, small group, and independent activities. Students will monitor their progress using proficiency rubrics and a growth mind-set.

Prerequisite: Spanish I & II (C or higher grade) and instructor permission

Career Pathway: *Engineering & Manufacturing Ag, Food & Natural Resources
Arts, Communications & Information Systems Human Services & Education
Business Mgmt & Administration Health Science*

Year
2 Credits

Teacher approval required. Students continue their study of Spanish and work to improve their skills and work toward attaining the intermediate level of proficiency. The curriculum will include reading novels, watching programs in Spanish, real world projects, and learning more about Spanish grammar. Students will work to improve their writing, reading, listening and speaking skills in Spanish. The curriculum will rotate and students may take the class for two years, their Junior and/or Senior years. Students may choose to take a Spanish proficiency test at the end of Spanish 4 to see if they have acquired the intermediate level of proficiency. This level of proficiency is required to earn the Bilingual Seal of proficiency as awarded by the Minnesota Department of Education. Achieving the seal of proficiency will earn college credit at Minnesota State Universities.

Minnesota Career Fields, Clusters & Pathways

■ Marketing

- > Merchandising
- > Marketing Management
- > Marketing Communications
- > Marketing Research
- > Professional Sales

■ Business, Management, and Administration

- > Administrative Support
- > Operations Management
- > Business Information Management
- > Human Resources Management
- > General Management

■ Hospitality and Tourism

- > Lodging
- > Recreation, Amusements and Attractions
- > Restaurants and Food/Beverage Services
- > Travel and Tourism

■ Finance

- > Banking Services
- > Business Finance
- > Securities and Investment
- > Accounting
- > Insurance

■ Agriculture, Food, and Natural Resources

- > Animal Systems
- > Agribusiness Systems
- > Environmental Service Systems
- > Food Products and Processing Systems
- > Natural Resources Systems
- > Plant Systems
- > Power, Structural, and Technical Systems

■ Arts, Audio/Video Technology, and Communications

- > Audio/Video Technology and Film
- > Journalism and Broadcasting
- > Performing Arts
- > Printing Technology
- > Communications Technology
- > Visual Arts

■ Information Technology

- > Information Support and Services
- > Network Systems
- > Programming and Software Development
- > Web and Digital Communications



MINNESOTA STATE

Minnesota Department of
Education

CAREER FIELD

Agriculture, Food,
& Natural Resources

CAREER FIELD
Business, Management,
& Administration

CAREER FIELD
Arts, Communications, &
Information Systems

Foundation Knowledge & Skills

Problem Solving • Critical Thinking
Employability • Citizenship • Ethics
Career Development • Integrity • Teamwork
Legal Responsibilities • Academic Foundations
Technology Application • Communications
Safety, Health & Environment • Leadership
Technical Literacy • Cultural Competence
Lifelong Learning • Financial Well-Being
Organizational & Global Systems
Creativity • Innovation

CAREER FIELD
Human Services

CAREER FIELD
Engineering,
Manufacturing, & Technology

CAREER FIELD
Health Science
Technology

■ Law, Public Safety, Corrections, and Security

- > Correction Services
- > Emergency and Fire Management Services
- > Law Enforcement Services
- > Legal Services
- > Security and Protective Services

■ Government and Public Administration

- > Revenue and Taxation
- > Foreign Service
- > Governance
- > National Security
- > Planning
- > Public Management and Administration
- > Regulation

■ Human Services

- > Consumer Services
- > Counseling and Mental Health Services
- > Early Childhood Development and Services
- > Family and Community Services
- > Personal Care Services

■ Education and Training

- > Administration and Administrative Support
- > Professional Support Services
- > Teaching/Training

■ Health Science

- > Biotechnology Research and Development
- > Diagnostic Services
- > Support Services
- > Health Informatics
- > Therapeutic Services

■ Transportation, Distribution, and Logistics

- > Facility and Mobile Equipment Maintenance
- > Health, Safety, and Environmental Management
- > Logistics Planning and Management Services
- > Sales and Services
- > Transportation Operations
- > Transportation Systems/Infrastructure Planning, Management, and Regulation
- > Warehousing and Distribution Center Operations

■ Architecture and Construction

- > Construction
- > Design/Pre-construction
- > Maintenance/Operations

■ Manufacturing

- > Production
- > Manufacturing Production
- > Process Development
- > Maintenance, Installation, and Repair
- > Quality Assurance
- > Logistics and Inventory Control
- > Health, Safety, and Environmental Assurance

■ Science, Technology, Engineering, and Mathematics

- > Engineering and Technology
- > Science and Mathematics

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iSPEAK CTE Blog
www.mnlearningthatworks.org

Legend:

■ = Career Cluster

> = Career Pathway

Explanation provided on reverse side.