ROCORI Middle School

Course Registration Guide

2026-2027

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*Please note that courses listed in this guide are subject to change.

Middle School Credit Requirements

Middle school students will be enrolled in classes to accumulate 27 credits throughout grades 6, 7, and 8. From the total 27 credits, 18 credits will be earned from required core academic subjects, 4 credits from required elective courses, and 5 credits from other elective courses of the student's choosing. Students may be placed into a math or reading skills class based on their performance on recent standardized assessments. Skills class will take the place of elective classes.

Core Subject Area	**Credits – 18**
ELA	1.5 each year for a total of 4.5
Math	1.5 each year for a total of 4.5
Science	1.5 each year for a total of 4.5
Social Studies	1.5 each year for a total of 4.5

Elective Courses	**Credits – 9**
6th Grade	Band/Choir/General Music – 1.5 credits Ed Communications - .25 credits Health - .25 credits PE - .5 credits Visual Arts - .25 credits Reading - .25 credits
7th Grade	PE 7/8 - .25 credits World Cultures - .25 credits Other (student choice) - 2.5 credits
8th Grade	Career Explorations - .25 credits Human Development and Relationships - .25 credits PE 7/8 - .25 credits Other (student choice) - 2.25 credits

Elective Course Offerings

Core Subject Electives
*Creative Writing
Early American History Through Film New
Famous Court Trials
Fantasy Math/Sports Math
Game of Life
Genius Hour
History Day
Hook, Line, and Thinker
Human Body
Logic and Problem Solving
Modern US History Through Film
Mysterious Fiction
Playing Games with Math
Reading 6^ – 6
Science Fiction and Fantasy
Speech and Debate
STEM
World History in Action

Global
Career Exploration^ – 8
Passport to Latin America and Spain
Spanish 1 (8th grade only)
World Cultures^ – 7

Agriculture
Intro to Agriculture
Natural Resources
Plant Science
Small/Companion Animal Science

Art
Advanced Drawing and Painting
3D Art
Beginning Drawing and Painting
Build Your Own Art Class
Visual Arts^ – 6
World Crafts

PE/Health
*Fitness Fun for Females
Health^ – 6
*IDLS
PE 6 A^ – 6
PE 6 B^ – 6
*PE 7/8^ – 7 and 8
*Speed and Strength

Note: One term of PE 7/8 is required in both 7th and 8th grade. Other PE classes can be taken as an elective class.

FACS
DIY Design
Human Development and Relationships^ – 8
Let's Cook
Sewing Studio: Intro to Sewing and Design New

Technology
Advanced Keyboarding
Digital Design 1
Digital Design 2
Ed Communications^ – 6
*Keyboarding
Industrial Design and Modeling I
Industrial Design and Modeling II
Intro to Coding and Automation
Media Production 1
Media Production 2
Microsoft Office
Robotics 1
Robotics 2

Music
Band
Choir
General Music (Gr. 6 only)
*Musical Theater

^ These courses are required
* These courses can be taken in both 7th and 8th grade for credit

Spartan Pathways

The Spartan Pathway Program is designed to guide students toward college and career opportunities by integrating academic education with career-technical training and real-world experiences. By selecting a specific pathway, students can acquire the skills and knowledge necessary for a successful transition to post-secondary education or their chosen careers after high school.

These pathways serve as a roadmap for students during the registration process, directing them toward classes aligned with their career interests. As students navigate their educational journey at ROCORI, they will explore these pathways, gaining valuable experiences and insights into their chosen fields. Spartan Paths empower students to make informed decisions about their future while equipping them with the tools they need to succeed.

Course and Pathway Indicators

	Agriculture & Natural Resources
	Business, Arts, Communication & Information Technology
	Engineering, Manufacturing & Construction
	Health Science & Human Services
	Requirement
	Elective

Important Course Information –
Sixth grade students will be scheduled into courses with other sixth grade students. Sixth grade students have the opportunity to choose between band, choir, or general music while the other courses have been assigned to them.

Seventh and eighth grade students will be placed into required courses with their grade level peers. Elective courses will be mixed with both seventh and eighth grade students.

Course Placement and Progression

The first step in providing a meaningful education for student is the determination of appropriate coursework. The faculty of ROCORI schools will utilize data gained from student records to determine the appropriate

placement of students in core academic subjects. The school's Response to Intervention (RtI) Team has an objective data-driven process to place students in the appropriate core courses.

Math Course Progression: Many students and parents are concerned with math course placement in the middle school and how it translates to future opportunities in the high school. The chart below identifies the typical progression of math courses in the different tracks. Students who qualify to take pre-algebra in grade 6, algebra in grade 7, and geometry in grade 8 have consistently performed at or above the 90th percentile on standardized assessments, including their three most recent standardized assessments. RMS uses data from assessment results and trends for individual students when placing them in math courses. RMS uses data from the Minnesota Comprehensive Assessments (MCAs) and the FAST test.

		ROCORI High School Mathematics Progression	
Grade	**Regular**	**Advanced Math**	**Qualify for College Level Math gr 10**
6	Math 6	Pre-Algebra	
7	Pre-Algebra	Algebra 1	
8	Algebra I	Algebra I	Geometry
9	Non-Linear Algebra	Advanced Geometry	Advanced Algebra II
10	Geometry	Algebra II or Advanced Algebra II	Introduction to Statistics (CEP) and Trigonometry*
11	Algebra II and Elementary Probability and Statistics	Trigonometry and/or Elem Prob & Stats **OR** College Trig and/or College Prob & Stats	College Algebra and/or Pre-Calculus* or Short Course Calculus
12	Trigonometry, Pre-Calculus or Consumer Math	Pre-Calculus or College Short Course Calc. or College Algebra	College Algebra or Short Course Calculus or Pre-Calculus or Calculus I*

* Class selection depends on Accuplacer test score achieved. Pre-Calculus is the perfect class for those who do not qualify for College Algebra, but wish to take a math class that will prepare them further for college.

Note: All students are required to take either Elementary Probability and Statistics or Introduction to Statistics (CEP) in high school.

ELA

ELA (English Language Arts) 6

Course Number: 161, 162, 163	Grades: 6	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

ELA 6 is a course where students will enhance their skills in the areas of word recognition, vocabulary, reading comprehension, and literature.
Power Standards:

- Identify the exposition, rising action, climax, falling action, and resolution to determine the author's purpose.
- Use literary elements to make connections to a variety of texts.
- Identify the main idea and support it with details.
- Use context clues to find and understand answers to questions.
- Break apart new words to understand how they are used in the text.

ELA (English Language Arts) 7

Course Number: 171, 172, 173	Grades: 7	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

ELA 7 explores the world of literature through reading, viewing, listening, and writing; all of these skills are important for communication with others. This course encourages cooperative learning and encourages discussion and sharing ideas. Students will be asked to understand, make decisions, and accept responsibility for their individual learning process. This class will expose students to a variety of literary genres.
Power Standards:

- Making connections and drawing conclusions based on provided information, recognizing facts versus opinions, understanding the author's point of view, purpose, audience and message.
- Using and recognizing the elements of fiction, utilizing character analysis to understand the effect on plot.
- Recognizing, identifying, using, and understanding figurative language.
- Writing in a variety of formats, including poetry, stories, essays, editorials, letters, directions, and research reports.
- Understanding and using the conventions of standard English.

ELA (English Language Arts) 8

Course Number: 181, 182, 183	Grades: 8	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

ELA 8 is a course designed to build skills in the reading and study of literature, in vocabulary, listening and speaking, clear and creative written communication, and correct grammar, usage, and mechanics for standard English. Students will read and analyze fiction in the forms of short stories and class novels, read nonfiction in the forms of quotes, essays, editorials, articles, biography and autobiography excerpts, and lyrical and narrative poetry. Students will use the writing process to write for a variety of purposes, including writing responses to literature, opinion-based writing in sentences, paragraphs, and full-length essays, and poetry.
Power Standards:

- Paraphrase the main ideas and supporting details.
- Distinguish facts from opinions.
- Critically read to determine an author's purpose, point of view, audience and message/theme.
- Analyze the effects of sound, form, and figurative language in prose and poetry.
- Determine the meaning of unknown words by using an online dictionary, context clues, and/ or knowledge of morphemes, roots, prefixes, and suffixes.
- Use quality speaking and listening skills in discussions and in the sharing of writing.
- Become proficient in correcting grammatical errors, understanding sentence parts, and utilizing Standard English in writing

Reading 6

Course Number: 140	Grades: 6	Length: 1 Term
Course Type: Required	Pathway:	Credits: .25

In this course students will explore both fiction and nonfiction text in a nontraditional setting. Students will explore and exercise reading skills through activities and group activities. Special emphasis will be put on: Reading Fluency, Vocabulary Building, Elements of Plot, and Figurative Language.

ELA Electives

Creative Writing

Course Number: 154	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

This class can be taken in both 7th and 8th grade

This elective will explore the writing process and creativity. Students will be asked to write in a variety of formats and on a variety of subjects – different genres will be addressed from one year to the next. Students will discuss and utilize many of the editing and publishing aspects of writing to enhance the experience. We will also be writing for a specific audience, the kindergarten at CSE, and creating hardcover books for them with your own stories and pictures.

Power Standards:

- Write narratives and other creative texts to develop real or imagined experiences or events using effective techniques.
- Use a writing process to develop and strengthen writing including planning, drafting, revising, editing, rewriting, and publishing.
- Demonstrate an understanding of figurative language, figures of speech, and word nuances.

Science Fiction and Fantasy

Course Number: 158	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

If you enjoy stories and books about things that seem too fantastic to be real, this is the class for you! We will be reading and exploring science fiction literature through novels and short stories, plus viewing some films that utilizes this genre. Because this is an English-based class, we will also write our own science fiction/fantasy short stories. Come have fun and explore the worlds beyond our own, perhaps we will find our own Utopia!

Power Standards:

- Read closely to determine what the text says explicitly and to make logical inferences from it.
- Determine central ideas or themes of a text and analyze its development over the course of the text.
- Analyze how individuals, events, and ideas develop and interact over the course of a text.

Mysterious Fiction

Course Number: 151	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

Students will learn about the genre of mystery by reading, viewing, and listening to various mysteries, including cliffhangers, horror stories, and detective stories, in the forms of interactive plays, original texts. Students will play games and watch movie adaptations of classic mysteries. Students will also write detective plays or stories and present them in class by reading them aloud, or by sharing a video, having the class perform for them through a read-aloud play.
Power Standards:

- Analyze how particular lines of dialogue and events in a story cause or affect events, character changes, and character decisions.
- Analyze how differences in points of view of the characters and audience create such effects as suspense and dramatic irony.
- Write and share narratives or plays to demonstrate an understanding of and creatively use elements of detective stories in original writing.

Speech and Debate

Course Number: 155	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

Students will develop and perform different types of speeches and will explore the elements of speeches written for a variety of purposes. Speeches will range from informal discussion, interviewing skills, how-to speeches, and persuasive speeches.. Students will also engage in discussion and learn and practice the procedures of debate.
Power Standards:

- Engage effectively in a range of collaborative discussions.
- Delineate a speaker's argument and specific claims, evaluating the soundness of the reasoning and relevance and sufficiency of the evidence and identifying when irrelevant evidence is introduced.
- Adapt speech to a variety of contexts and tasks.

Famous Court Trials

Course Number: 156	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT; Health Science and Human Services	Credits: .25

If you enjoy law and order, justice, and righting wrongs or if you are someone who enjoys digging deeper into the infrastructure of the American court system, this class is for you! Students in this course will explore various famous American trials, looking at evidence, the court documents, and videos. We will discuss the outcomes of various trials and how those trials shaped our American court system. We will be reading, writing, viewing, discussing, and listening in this course.
Power Standards:

- Analyze the interactions between individuals, events, and ideas in a text (e.g., how ideas influence individuals or events, or how individuals influence ideas or events

MATH

Grade 6:

Math 6

Course Number: 261, 262, 263	Grades: 6	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

This is the regular math class for grade six. This course is a 6th grade math course where students will learn new math skills and expand upon those introduced in 5th grade in the areas of Number and Operations, Algebra, Geometry and Measurement, and Data Analysis and Probability.
Standards:

- Solving problems using decimals, fractions, percent and ratios.
- Solving equations and inequalities using variables.
- Solving real world problems using probability.
- Use patterns, tables, graphs and rules to solve real world problems.
- Explore geometry, finding missing angles, perimeter, surface area and volume.

Pre-Algebra (Advanced Math)

Course Number: 264, 265, 266	Grades: 6	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

This is the advanced math course for grade six. This course will emphasize algebra readiness by engaging students in a variety of problem solving and reasoning skills. The following concepts will be covered: number sense, integers, solving equations, statistics, and probability.
Standards:

- Read, write, represent and compare positive and negative rational numbers, expressed as integers, fractions, and decimals.
- Calculate with positive and negative rational numbers, and rational numbers with whole number exponents, to solve real-world and mathematical problems.
- Solve real-world problems using variables and representing mathematical equations both graphically and numerically.
- Use mean, median, and range to draw conclusions about data and make predictions.
- Calculate probabilities and reason about probabilities using exponents to solve real-world and mathematical problems.

Grade 7:

Pre-Algebra

Course Number: 271, 272, 273	Grades: 7	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

This is the regular math class for grade seven. This course will emphasize algebra readiness by engaging students in a variety of problem solving and reasoning skills. The following concepts will be covered: number sense, integers, solving equations, statistics, and probability.
Standards:

- Read, write, represent and compare positive and negative rational numbers, expressed as integers, fractions, and decimals.

- Calculate with positive and negative rational numbers, and rational numbers with whole number exponents, to solve real-world and mathematical problems.
- Solve real-world problems using variables and representing mathematical equations both graphically and numerically.
- Use mean, median, and range to draw conclusions about data and make predictions.
- Calculate probabilities and reason about probabilities using exponents to solve real-world and mathematical problems.

Algebra (Advanced Math)

Course Number: 274, 275, 276	Grades: 7	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

This is the advanced math class for grade seven. This course will emphasize high school readiness by exposing students to a variety of algebra concepts. This will include: solving equations, factoring, graphing, functions, line of best fit, inequalities, solving systems and radicals.
Standards:

- Read, write, compare, classify and represent real numbers, and use them to solve problems in various contexts.
- Represent real-world and mathematical situations using equations and inequalities involving linear expressions. Solve equations and inequalities symbolically and graphically. Interpret solutions in the original context.
- Interpret data using scatterplots and approximate lines of best fit. Use lines of best fit to draw conclusions about data.

Grade 8:

Algebra

Course Number: 281, 282, 283	Grades: 8	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

This is the regular math class for grade eight. This course will emphasize high school readiness by exposing students to a variety of algebra concepts. This will include: solving equations, factoring, graphing, functions, line of best fit, inequalities, solving systems and radicals.
Standards:

- Read, write, compare, classify and represent real numbers, and use them to solve problems in various contexts.
- Represent real-world and mathematical situations using equations and inequalities involving linear expressions. Solve equations and inequalities symbolically and graphically. Interpret solutions in original context.
- Interpret data using scatterplots and approximate lines of best fit. Use lines of best fit to draw conclusions about data.

Geometry (Advanced Math)

Course Number: 284, 285, 286	Grades: 8	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

PREREQUISITE: Students must have passed Algebra in 7th grade and continue to meet performance requirements on FAST and MCA assessments
This is the advanced math class for grade eight. In Geometry, students will develop mathematical concepts of arithmetic and algebra while studying two and three-dimensional relationships. Students will study points, lines, circles, triangles, polygons, solid figures, and deductive proofs.
Standards:

- Construct logical arguments and write proofs of theorems and other results in geometry.
- Apply properties of parallel and perpendicular lines, angles, congruent and similar figures, polygons, circles, and trigonometric ratios to solve problems.

Math Electives

Genius Hour

Course Number: 254	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

Is there something you have always wanted to learn more about? During this course, you will get the opportunity to investigate a topic you want to learn more about. Then, you will have the chance to create something to show what you have learned. The possibilities are endless for what you may learn or create during this class. This course is capped at 20 students.

Standards:

- Conduct short research projects to answer a question, drawing on several sources and generating additional related, focused questions for further research and investigation.
- Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.
- Include multimedia components and visual displays in presentations to clarify information.

The Game of Life

Course Number: 251	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Agriculture and Natural Resources; Business, Arts, Communication, and IT; Engineering, Manufacturing, and Construction; Health Science and Human Services	Credits: .25

Do you have what it takes to make it in the real world? This course is designed to explore the financial logistics of life on your own (i.e. Plan for college, find a job, and purchase all of life's necessities).

Standards:

- Calculate with positive and negative rational numbers, and rational numbers with whole number exponents, to solve real-world and mathematical problems.
- Read, write, represent and compare positive and negative rational numbers, expressed as integers, fractions and decimals.

Fantasy Math/Sports Math

Course Number: 252	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

You will utilize professional sports data to explore math concepts. Depending on the time of year the course is taught, you could be using players and statistics from the NFL, NBA, or MLB. During the first two trimesters, you may draft your own team and compete against your classmates in a fantasy league. During the third trimester, you may explore March Madness and the start of the baseball season. Concepts covered will include mean, median, and range. We will also explore different ways to compare data by making line graphs, bar graphs and circle graphs.

Standards:

- Display and interpret data in a variety of ways, including circle graphs and histograms.
- Use mean, median and range to draw conclusions about data and make predictions.

Math Games

Course Number: 253	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway:	Credits: .25

Are you not convinced Math is a part of the real world? How about it in games! In this course you will explore the different ways that Math is incorporated into timeless traditional games and newer board games. Be prepared to work on computational Math skills like you never have before!

Power Standards:

- Calculate with positive and negative rational numbers, and rational numbers with whole number exponents, to solve real-world and mathematical problems.
- Read, write, represent and compare positive and negative rational numbers, expressed as integers, fractions and decimals.

Logic and Problem Solving

Course Number: 255	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Agriculture and Natural Resources; Business, Arts, Communication, and IT; Engineering, Manufacturing, and Construction; Health Science and Human Services	Credits: .25

Interested in improving your problem solving, logical reasoning, and overcoming challenges? This course will teach positive ways to overcome obstacles with daily hands-on opportunities to practice your grit. Give up on things easily? Well, there's no complaining in this class! Try learning a few new strategies that will make your mindset about challenges in any area of your life more positive! *"You'll never be bored when you try something new. There's really no limit to what you can do!"* – Dr. Suess. Areas covered could include: Logic puzzles, Tangrams, Escape Rooms/Deciphering Codes, Wooden Logical Puzzles, Brainteasers, Crossword Puzzles, Sudoku/KenKen Puzzles, Clue/Who Done it?, Minute to Win It/Team Building Activities, and Mastermind, Wordle, and Nerdle.

Power Standards:

- Develop critical thinking skills to increase problem solving strategies and deductive reasoning.
- Determine the reasonableness of an outcome.
- Use reasoning about multiplication and division to solve ratio and rate problems.
- Use proportional reasoning to solve problems involving ratios in various contexts.

SCIENCE

Earth Science

Course Number: 361, 362, 363	Grades: 6	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

Earth science incorporates learning through a variety of activities with an emphasis on hands-on learning. The course includes lessons in safety, metrics, astronomy, geology, and weather. This class covers the relationships between events and characteristics of the earth's structure.
Standards:

- Science is a way of knowing about the natural world and is characterized by empirical criteria, logical argument and skeptical review.,
- Scientists and engineers use models to study, predict, test, and apply their learning.
- Forces within the Earth create geologic formations that can be identified through observations of patterns.
- In order to maintain and improve their existence, humans interact with and influence Earth systems.

Life Science

Course Number: 371, 372, 373	Grades: 7	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

Life science incorporates learning through a variety of activities with an emphasis on hands-on learning. The course includes lessons in safety, metrics, genetics, evolution, classification, botany, zoology, and ecology. Life Science class surveys the diversity of living things with an emphasis on relationships and relatedness between organisms.
Standards:

- Living organisms contain cells that are organized to provide for the necessary functions of life.
- Interactions among organisms allow energy to flow for the support of natural systems.
- Species differentiate through mutations occurring during reproduction.
- The interaction between humans and the environment causes change within both.
- Science is a way of knowing about the natural world and is characterized by empirical criteria, logical argument and skeptical review.

Physical Science

Course Number: 381, 382, 383	Grades: 8	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

Physical science covers a variety of physical science topics through four main units: Topics of study in Science 6 include the Nature of Science and Engineering, Matter, Forces and Motion, and Energy.
Standards:

- Identify a common engineered system and evaluate its impact on society.
- Substances can undergo physical and chemical changes.
- Motion of an object can be described in terms of speed, direction and change of position.
- Waves involve the transfer of energy without the transfer of matter.

Science Electives

The Human Body

Course Number: 352	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Health Science and Human Services	Credits: .25

Through a variety of student-driven investigations, this elective centers upon the study of human systems. Students will improve their knowledge with a diverse array of hands-on activities.

Standards

- Describe how the organs in the respiratory, circulatory, digestive, nervous, skin and urinary systems interact to serve the needs of vertebrate organisms.
- Students will analyze and demonstrate the relationships between the structure and function of tissues, organs, and systems as well as relationships between body systems.
- Compare and contrast the information gained from experiments, simulations, video or multimedia sources with that gained from reading a text on the same topic.

STEM

Course Number: 353	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Engineering, Manufacturing, and Construction	Credits: .25

In this class, students will work individually and collaboratively to design, engineer, and construct. Students will have the opportunity to enhance their **S**cience, **T**echnology, **E**ngineering, and **M**ath (STEM) skills in this educational, yet, exciting class. The Teacher and Students will choose from a variety of engaging projects including bridges, cardboard boats, egg drops, etc…*Out of pocket expenses may be incurred in this class*.

Standards:

- Explain and give examples of how, in the design of a device, engineers consider how it is be manufactured, operated, maintained, replaced, and disposed of.
- Develop possible solutions to an engineering problem and evaluate them using conceptual, physical, and mathematical models.

Hook, Line, and Thinker

Course Number: 354	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Agriculture and Natural Resources	Credits: .25

Students will read and utilize topographical maps, learn basics of knot tying, and explore various anatomies of organisms in the animal kingdom to identify variations related to their environment. This class will focus on the various lakes, fish anatomies, trait variations, and fishing techniques throughout MN.

Standards:

- LS: Ecosystems: Interactions, Energy, and Dynamics
- LS: Heredity, Inheritance and Variation of Traits

SOCIAL STUDIES

MN Studies

Course Number: 461, 462, 463	Grades: 6	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

Students will learn about the History of Minnesota from the ice age to around World War II focusing on Geography, Economy, and Civic understandings. The use of graphs, maps, personal accounts (written and verbal), and other primary and secondary resources will be used to gain perspective.
Power Standards:

- Engage in historical inquiry.
- Examine the relationship levels of government
- Find locations of cities, landmarks, and topographical features using a map to see how resources affected settlement patterns.
- Analyze the influence of market-based economy at the local and national levels.

US Studies

Course Number: 471, 472, 473	Grades: 7	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

US History students will use skills of historical and geographical analysis to explore the early history of the United States and understand ideas and events that strengthened our country. Students will continue to learn fundamental concepts in civics, government, economics, culture, and geography as they study the United States. Basic geography skills, cooperative learning activities, current events, authentic assessments, and research projects will be used to enhance student learning.
Power Standards:

- Acquire historical skills… including chronological thinking, use of historical resources, historical inquiry, investigation, research, analyze evidence, and draw conclusions.
- Acquire knowledge of United States Citizenship. (rights and responsibilities)
- Describe the relationship and impact the US has in regards to other nations around the world.
- Support Literacy and Mathematical skills.

Global Studies

Course Number: 481, 482, 483	Grades: 8	Length: 6 Terms
Course Type: Required	Pathway:	Credits: 1.5

Global studies is a course in world geography designed with a global scope. Students will gain knowledge about and learn to use globes, maps, almanacs, textbooks, periodicals, and electronic resources. Current events and citizenship are also explored.
Power Standards:

- Determine meanings of words and phrases used in geography.
- Analyze text structure.
- Analyze, use, and create visual information including charts, graphs, maps, graphic organizers, videos, etc.
- Distinguish among fact, opinion, and reasoned judgment.
- Read and comprehend social studies texts proficiently.

Social Studies Electives

New

Early American History Through Film

Course Number: 456	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

Early American History Through Film will explore the founding of the United States from colonization to the American Revolution and how it has been depicted through both television and movies. In this course students will learn about the major people and events of the first European colonies in America, the French and Indian War, and the American Revolution. Students will then use the knowledge they have gained to analyze the facts and fictions found in the films that depict those people and events.

Power Standards

- Use primary and secondary sources to analyze the accuracy of retellings of historical events.
- To be able to identify the major people and events of the founding of the United States of America.

History Day

Course Number: 454	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT; Health Science and Human Services	Credits: .25

Do you enjoy studying History? Do you enjoy showing your knowledge in competition? In this course you will get to research a historical topic of your choosing. You will then use that research to create a project of your choosing (Exhibit Board, Website, Documentary, Performance, or Paper). You will then have the option to enter your project into the MN History Day Competition where you will compete against your classmates as well as students from other schools across the state and maybe even country.

Power Standards:

- Use primary and secondary sources to analyze the accuracy of retellings of historical events
- Integrate evidence from multiple historical sources and interpretations into a reasoned argument and/or compelling narrative about the past.

Modern US History Through Film

Course Number: 450	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

Modern U.S. History Through Film will explore United States history from 1945 to present and how it has been depicted through movies. In this course students will research the major people and events of U.S. History from 1945 to present. Students will then use the knowledge they have gained to analyze the facts and fictions found in the films that depict those events in U.S. History 1945-Present.

Power Standards

- Use primary and secondary sources to analyze the accuracy of retellings of historical events.
- To be able to identify the major people and events of United States history after World War II that have shaped our recent history.

World History in Action

Course Number: 455	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT; Health Science and Human Services	Credits: .25

Using simulations and readers' theater plays, World History in Action students will explore some of the most important events and themes found through four eras of world history (Ancient History, The Roman Empire, The Dark Ages & The Age of Exploration). Students will learn about the history surrounding these simulations and plays by engaging with both primary and secondary sources. Through these simulations and plays students will look at history through the eyes of the people who lived and experienced these events.

Power Standards:

- Students will be able to use primary and secondary sources to be able to see historical events through multiple perspectives
- Students will be able to identify the major people and events of World History.

AGRICULTURE

Welcome to our middle school agriculture classes! Here, you'll explore the fascinating world of farming, gardening, and sustainability. We'll learn about plants, animals, and the environment, and discover how agriculture impacts our daily lives. Through hands-on projects, experiments, and teamwork, you'll gain practical skills and knowledge that will help you appreciate the vital role of agriculture in our communities and the world. You will also be exposed to extracurriculars that relate to the Ag world, like FFA and 4-H. Let's dig in and grow together!

Intro to Agriculture

Course Number: 700	**Grades: 7 and 8**	**Length: 1 Term**
Course Type: Elective	**Pathway: Agriculture and Natural Resources**	**Credits: .25**

This course is designed for students who have an interest in exploring the broad field of agriculture. This class will give students a variety of hands on, and applied learning experiences related to the career areas of agriculture. In addition, the course will provide students with opportunities to take part in community activities, individual student learning projects, and be introduced to the National FFA Organization. The course will offer a variety of classroom, lab, field experiences, and trips to educate students throughout this course.

Small Animal Science

Course Number: 701	**Grades: 7 and 8**	**Length: 1 Term**
Course Type: Elective	**Pathway: Agriculture and Natural Resources**	**Credits: .25**

Our furry friends can add so much to our lives, but how can we provide the best care for them? This course will give students an awareness of many different areas related to small companion animals that are a big part of our lives. Students will understand the responsibility and financial obligation that come with having a companion. Many applied lab activities and hands-on lessons will be used to help teach the concepts in this class. General topics in animal nutrition, animal health, and general care will be covered. Students will have a chance to interact with live animals in the class when available. Career exploration in the small animal industry will also be covered in this class.

Plant Science

Course Number: 702	**Grades: 7 and 8**	**Length: 1 Term**
Course Type: Elective	**Pathway: Agriculture and Natural Resources**	**Credits: .25**

In this course, students will use live plants to learn about natural science and plant cultivation. This class will use the school greenhouse to teach students aspects of plant science such as plant reproduction, genetics, and growth. Students will see first-hand how plant growth and production occur by choosing and growing their own greenhouse crops. Students will explore both traditional and hydroponic plant production systems and pest management and plant diseases.

Natural Resources

Course Number: 703	**Grades: 7 and 8**	**Length: 1 Term**
Course Type: Elective	**Pathway: Agriculture and Natural Resources**	**Credits: .25**

Hunting, fishing, and nature walking every day! This class is designed for students who have an interest in an outdoor career and for those who enjoy recreation such as hunting, birdwatching, fishing, and other nature-wildlife related activities. Some class highlights include animal tracking, local DNR visit, and possibly making their own fish lure. Students will also learn about career pathways and post-secondary educational opportunities for both two- and four-year programs in fish and wildlife.

ART

Visual Arts 6

Course Number: 567	Grades: 6	Length: 1 Term
Course Type: Required	Pathway: Business, Art, Communication, and IT	Credits: .25

This engaging course is designed for 6th graders to explore the world of art through a variety of mediums and techniques. Students will develop their creative skills while learning about the elements of art and the basics of design. Through hands-on projects, they will express their individuality and build a strong foundation for future artistic endeavors. By the end of this course, students will have gained confidence in their artistic abilities, a variety of completed artworks, and a greater appreciation for the creative process. Join us for a fun and inspiring exploration of art!
Power Standards:

- Analyze the elements and principles of visual art and how they are used in creation, presentation, and response to visual works.
- Compare and contrast the connections among visual artworks, their purposes, and the personal, social, and cultural contexts.
- Create original two- and three-dimensional artworks in a variety of artistic contexts.

3D Art

Course Number: 574	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Art, Communication, and IT; Engineering, Manufacturing, and Construction	Credits: .25

In this engaging and hands-on course, students will explore the exciting world of three-dimensional art. This class will introduce the fundamentals of 3D design using a variety of materials such as clay and plaster. Throughout the course, students will develop their creativity, critical thinking, and problem-solving skills while enjoying the tactile and imaginative aspects of 3D art. Join us for a fun and inspiring journey into the world of sculpture!
Power Standards:

- Create original three-dimensional artworks in a variety of artistic contexts.
- Demonstrate the characteristics of the tools, materials, and techniques of different media for intentional effects.
- Revise artworks based on the feedback of others, self-reflection, and artistic intention.

Beginning Drawing and Painting

Course Number: 571A	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Art, Communication, and IT	Credits: .25

This dynamic course invites middle school students to embark on a creative journey through the foundational techniques of drawing and painting. Focusing on the exploration of various materials, students will gain hands-on experience while developing their artistic skills and personal style. By the end of this course, students will have a strong foundation in drawing and painting, a greater understanding of art materials, and the confidence to express their artistic voice. Join us to explore the vibrant world of art!
Power Standards:

- Create original two-dimensional artworks in a variety of artistic contexts.
- Demonstrate the characteristics of the tools, materials, and techniques of different media for intentional effects.
- Revise artworks based on the feedback of others, self-reflection, and artistic intention.

Advanced Drawing and Painting

Course Number: 571B	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Art, Communication, and IT	Credits: .25

PREREQUISITE: Students need to have completed beginning drawing and painting

l students ready to deepen their artistic skills and explore advanced techniques in drawing and painting. Students will engage in in-depth projects that challenge their creativity and technical abilities while experimenting with a wide range of materials. Join us to push your creative boundaries and explore the depths of your artistic potential!

Power Standards:

- Create original two-dimensional artworks in a variety of artistic contexts.
- Demonstrate the characteristics of the tools, materials, and techniques of different media for intentional effects.
- Revise artworks based on the feedback of others, self-reflection, and artistic intention.

World Crafts

Course Number: 572	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Art, Communication, and IT	Credits: .25

In this vibrant course, middle school students will embark on a creative journey through the diverse world of crafts from various cultures. Each week, students will explore traditional and contemporary crafting techniques from different regions, gaining insight into the cultural significance of each art form. By the end of this course, students will have a deeper understanding of global cultures through crafts, as well as a diverse portfolio of handmade pieces that celebrate their journey through world artistry. Join us to connect with creativity and culture!

Power Standards:

- Compare and contrast the connections among visual artworks, their purpose, and the personal, social, and cultural contexts.
- Demonstrate the characteristics of the tools, materials, and techniques of different media for intentional effects.
- Revise artworks based on the feedback of others, self-reflection, and artistic intention.

Build Your Own Art Class

Course Number: 575	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Art, Communication, and IT	Credits: .25

PREREQUISITE: Students should have completed two other 7th and 8th grade art classes before taking this class.

This unique and flexible course allows middle school students to design their own artistic journey by choosing the projects, techniques, and mediums they want to explore. Students will collaborate, brainstorm, and create a personalized curriculum that reflects their individual interests and creativity. By the end of this course, students will have crafted a diverse body of work that reflects their interests and creativity, as well as developed valuable skills in project planning and collaboration. Join us for a creative experience where you can build the art class of your dreams!

Power Standards:

- Create original two- and three- dimensional artworks in a variety of artistic contexts.
- Demonstrate the characteristics of the tools, materials, and techniques of different media for intentional effects.
- Revise artworks based on the feedback of others, self-reflection, and artistic intention.

FACS

New

Sewing Studio: Intro to Sewing and Design

Course Number: 653	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Art, Communication; Engineering, Manufacturing, and Construction; Health Science and Human Services	Credits: .25

Students will have a hands-on introduction to the creative world of sewing and textiles. In this beginner-friendly course, students will learn the fundamentals of both hand and machine sewing while completing 2–3 practical and exciting projects. Guided by clear instruction and plenty of studio time, students will create a personalized tote bag and a pair of pajama shorts or pants. Students will also sew an individual quilt square using basic stitches; all squares will be combined into a full quilt that will be donated to a local organization. Throughout the course, students will practice essential skills such as threading a machine, sewing seams, adding elastic or drawstring waistbands, and attaching buttons—building confidence, creativity, and craftsmanship along the way.

Power Standards:

- Demonstrate sewing and textiles skills by safely using hand-sewing tools and operating a sewing machine to construct textile products.
- Apply design and problem-solving processes to plan, construct, and revise sewing projects based on pattern instructions and personal creativity.
- Demonstrate safe and responsible practices when working with sewing equipment, materials, and shared studio spaces.
- Participate in a textile-based service-learning project by creating quilt squares that contribute to a completed quilt for community donation.

Let's Cook!

Course Number: 640	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Agriculture and Natural Resources	Credits: .25

This course will teach students about basic kitchen fundamentals and nutrition. Students will learn the importance of food and kitchen safety through the application of basic food preparation techniques. Students will also interpret basic health information in order to make smart decisions when it comes to nutrition. This course will prepare students to take Foods for Life in 9th-12th grade.

Power Standards:

- Identify characteristics of major food-borne pathogens, their role in causing illness, and methods of prevention, and safe handling procedures.
- Prepare various food items using safe handling and proper preparation techniques.
- Analyze the effect of nutrients on health, appearance, and peak performance.
- Analyze sources of food and nutrition information, including food labels, related to health and wellness.

DIY Design

Course Number: 641	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Agriculture and Natural Resources; Business, Art, Communication; Human Services	Credits: .25

In this course, students will explore the process of design through hands-on, creative, and practical projects. Students will work with interior design concepts, basic fabric and textile skills, and sustainable upcycling techniques. Throughout the course, students will learn to create room layouts, build décor items from recycled materials, and transform an existing clothing item into a refreshed or repurposed piece. Experiences in this class emphasize creativity, problem-solving, and personal expression through do-it-yourself design projects. Out-of-pocket expenses may be incurred for selected projects.
Power Standards:

- Apply design concepts to interior and textile projects
- Create and interpret simple floor plans
- Demonstrate basic sewing and upcycling techniques
- Use recycled materials to create functional décor
- Apply the design process to complete DIY projects

Human Development and Relationships

Course Number: 681	Grades: 8	Length: 1 Term
Course Type: Required	Pathway: Health Science and Human Services	Credits: .25

This course is designed to teach and motivate students to make positive decisions that affect their life now and into the future. Students will learn about values, decision-making, peer pressure, peer relationship skills and positive communication. During this class all students will also learn about reproductive health, prenatal development, and parenting. Emphasis is placed on helping students acquire knowledge and skills essential to the care and guidance of children and others. Students will have the option to experience caring for an infant through the BTIO weekend simulation experience.
Power Standards:

- Describe the effects of self-esteem and self-image on relationships in career and family settings.
- Demonstrate communication skills that contribute to positive relationships.
- Analyze principles of human growth and development across the lifespan.

GLOBAL

Career Exploration

Course Number: 680	Grades: 8	Length: 1 Term
Course Type: Required	Pathway: Agriculture and Natural Resources; Business, Arts, Communication, and IT; Engineering, Manufacturing, and Construction; Health Science and Human Services	Credits: .25

This class is designed to give students an opportunity to consider future occupational interests. Students will participate in several personal assessments to identify things like strengths, personality, areas of intelligence and personal values. They will use this information to discover occupations that would be of interest to them and that meet their areas of interest and their skills. Students will identify a career pathway and create a high school plan to include activities to be involved in and courses to take throughout their high school career.
Power Standards:

- Students will acquire the skills to investigate the world of work in relation to knowledge of self and to make informed career decisions.
- Students will understand the relationship between personal qualities, education, training and the world of work.
- Students will employ strategies to acquire career information and identify career goals.

World Cultures

Course Number: 196	Grades: 7	Length: 1 Term
Course Type: Required	Pathway: Agriculture and Natural Resources; Business, Arts, Communication, and IT; Engineering, Manufacturing, and Construction; Health Science and Human Services	Credits: .25

Our World Cultures course will be an exciting journey around the globe! Discover the unique elements of different cultures while diving into geography, music, art and more. Engage in group discussions and creative activities to foster a global perspective and connect with peers. By the end, you'll gain a deeper understanding of the great diversity that enriches our world.
Power Standards:

- Students acquire information and perspectives through use of authentic materials in the world languages and from the cultures.

Spanish 1

Course Number: 190, 191	Grades: 8	Length: 4 Terms
Course Type: Elective	Pathway: Agriculture and Natural Resources; Business, Arts, Communication, and IT; Engineering, Manufacturing, and Construction; Health Science and Human Services	Credits: 1.0

PREREQUISITE: Student needs to earn a trimester grade of B- or better in all three trimesters of English 7
Step into the exciting world of Spanish in this introductory course designed for beginners! Spanish 1 focuses on building essential skills in speaking, listening, reading, and writing through interactive lessons and engaging activities.

You'll learn fundamental vocabulary and grammar while exploring the cultures of Spanish-speaking countries. Fun projects, games, and real-life scenarios will enhance your learning experience and help you gain confidence in your language abilities.

By the end of the course, you'll have a basic foundation in Spanish, ready to engage in common conversations about likes, dislikes, family, food and more while appreciating the richness of Hispanic cultures. Join us and start your journey toward fluency!
Power Standards:

- Students recognize that different languages use different patterns to communicate and can apply this knowledge to their own language.
- Students convey information, concepts, and ideas to listeners and readers for a variety of purposes.

Passport to Latin America and Spain

Course Number: 199	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Agriculture and Natural Resources; Business, Arts, Communication, and IT; Engineering, Manufacturing, and Construction; Health Science and Human Services	Credits: .25

Get ready for an exciting adventure in our "Passport to Latin America and Spain" course! This course takes you on a journey through the vibrant cultures of Spanish-speaking countries. You'll explore everything from music and dance to unique foods and festivals. By the end of the course, you'll have a broader understanding of the rich diversity within Latin America and Spain, and a newfound appreciation for the cultures that shape our world. Pack your bags and your passport for a cultural adventure!
Power Standards:

- Students acquire information and perspectives through use of authentic materials from other cultures

MUSIC

Band

Course Number: 564, 565, 566 Grade 6 530, 531, 532 Grade 7 535, 536, 537 Grade 8	Grades: 6, 7, and 8	Length: 6 Terms
Course Type: Elective*	Pathway:Arts, Communication	Credits: 1.5

These courses focus on beginning and continuation of the development of the young musicians' ability to perform on a given instrument. Musical experiences are gained through a variety of styles and composers. Band members will participate in daily rehearsals and perform in concerts. Beginning band members will also have weekly lessons, outside of the daily rehearsal. Instruments and supplies may require rental and/or purchase.
Power Standards:

- Demonstrate the ability to read and notate music.
- Demonstrate proper tone production and articulation while performing on a given instrument.
- Rehearse and perform multiple works of music in a variety of styles.

Choir

Course Number: 561, 562, 563 Grade 6 510, 511, 512 Grade 7 515, 516, 517 Grade 8	Grades: 6, 7, and 8	Length: 6 Terms
Course Type: Elective*	Pathway:Arts, Communication	Credits: 1.5

This course focuses on continuing the development of the young singers' voices and how to use their instrument in a healthy manner. Musical experiences are gained through the use of a variety of styles and composers. Choir members will participate in daily rehearsals and perform in concerts. There are opportunities to perform as a soloist and in small groups, as well as, singing for special events.
Power Standards:

- Demonstrate the ability to read and notate music.
- Demonstrate proper tone production and articulation while singing.
- Rehearse and perform multiple works of music in a variety of styles.

Band and Choir

Course Number: 540, 541, 542 Grade 6 545, 546, 547 Grade 7 527, 528, 529 Grade 8	Grades: 6, 7, and 8	Length: 6 Terms
Course Type: Elective*	Pathway:Arts, Communication	Credits: 1.5

Students in this course alternate every other day between band and choir or with a schedule established between the band and choir teacher.

*Students in grade 6 are required to take band, choir, band and choir, or general music.

General Music

Course Number: 568, 569, 570	Grades: 6	Length: 6 Terms
Course Type: Elective*	Pathway:Arts, Communication	Credits: 1.5

This Course focuses on the continuation of students' musical development including music theory, music history, music composition and performance. This project-based class gives students a broad experience in many genres and areas of music and explores creativity and connection between the arts. This course is capped at 35 students.
Power Standards:

- Compare and contrast connections between the arts
- Analyze and Interpret a variety of musical works and performances
- Incorporate the creative process while creating or revising a composition

Musical Theater

Course Number: 509	Grades: 7 and 8	Length: 2 Terms
Course Type: Elective	Pathway:Arts, Communication	Credits: .5

This class can be taken in both 7th and 8th grade
Is there an "Inner Performer" in you just dying to escape? Love to sing, have fun and act goofy? Do you have a dramatic side? This 12 week class is for you!! During this intensive 12 week crash course in basic theater, (including acting, singing, and basic movement) you will have the opportunity to perform a "mini-musical" at the end of the class.
Power Standards:

- Acting by developing basic acting skills to portray characters that interact in improvised and scripted scenes.
- Singing, alone and with others, a varied repertoire of music.
- Evaluating music and music performances.
- Understanding relationships between music, the other arts, and disciplines outside the arts.

*Students in grade 6 are required to take band, choir, band and choir, or general music.

PE/HEALTH

**All students in grades 7 and 8 need to take PE 7/8 each year in grades 7 and 8.*

PE 7/8

Course Number: 870	Grades: 7 and 8	Length: 1 Term
Course Type: Required	Pathway:	Credits: .25

This class needs be taken in both 7th and 8th grade

These will be general physical education classes and will be a combination of life sports, individual sports, and team sports. Swimming will be included in this course. Units that are offered during a specific term will be dependent on weather. For example, soccer would be offered during terms 1, 2, 5, and 6, but not during terms 3 or 4.

Power Standards:

- Achieves and maintains a health-enhancing level of fitness.
- Participates regularly in physical activity.

PE 6 A and B

Course Number: 860, 861	Grades: 6	Length: 2 Terms
Course Type: Required	Pathway:	Credits: .50

This will be a required class and will be a combination of life sports, individual sports, and team sports. Swimming will also be included in this course.

Power Standards:

- Achieves and maintains a health-enhancing level of fitness.
- Participates regularly in physical activity.

Health

Course Number: 862	Grades: 6	Length: 1 Term
Course Type: Required	Pathway:	Credits: .25

This class will be a one term required class that uses Health Education Today curriculum. The course will cover mental and emotional health, decision making skills, drug awareness, body image and nutrition.

Power Standards:

- Students will demonstrate the ability to use decision-making skills.
- Students will comprehend concepts related to health promotion and disease prevention to enhance health.
- Students will demonstrate the ability to use goal-setting skills to enhance health.

Fitness Fun for Females

Course Number: 878	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway:	Credits: .25

This class can be taken in both 7th and 8th grade

This course is designed with female fitness in mind. The course will be one term in length. The focus will be on cardio health, strength, and life time activities. Some of the activities that may be included are: rollerblading, circuit training, cardio workouts, yoga, water aerobics, relaxation techniques and self-defense.

Power Standards:

- Values physical activity for health, enjoyment, challenge, self-expression, and social interaction.

IDLS

Course Number: 873	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway:	Credits: .25

This class can be taken in both 7th and 8th grade

Individual, Dual, and Lifetime Sports includes the lifetime sports of bowling, table tennis, pickleball, tennis, badminton, bean bags, cardiovascular fitness, swimming, and can jam.

Power Standards:

- Demonstrates competency in motor skills motor skills and movement patterns needed to perform a variety of physical skills.
- Students will adapt and combine skills to meet the demands of increasingly complex situations of selected movements.

Speed and Strength

Course Number: 872	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway:	Credits: .25

This class can be taken in both 7th and 8th grade

This class is designed to improve strength, endurance, and an individual's overall fitness level. There will be strength training and conditioning exercises provided in a variety of activities. The ROCORI middle school weight room and wrestling room will be utilized for this class. Students will be lifting Monday, Wednesday, Friday and Cardio on Tuesday and Thursday weekly.

Power Standards:

- Achieves and maintains a health-enhancing level of fitness.
- Values physical activity for health, enjoyment, challenge, self-expression, and social interaction.

TECHNOLOGY

Ed Communications

Course Number: 760	Grades: 6	Length: 1 Term
Course Type: Required	Pathway: Business, Arts, Communication, and IT	Credits: .25

Ed Communications will offer opportunities to develop 21st Century skills to effectively, efficiently and responsibly utilize technology and information resources to communicate, problem-solve and collaborate in an ever-changing, global society. Topics covered include: keyboarding practice, Microsoft Office basics, computer basics, computer animation, online presentation, cyber safety/social networking, & research skills using Electronic Library of Minnesota (ELM) databases.

Power Standards:

- Demonstrate understanding and communicate effectively through listening and speaking.
- Critically analyze information found in electronic and print media, and will use a variety of these sources to learn about a topic and represent ideas.

Keyboarding

Course Number: 754	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

This class can be taken in both 7th and 8th grade

This course will emphasize the proper use of a keyboard and point out that keyboarding skills are essential in today's competitive workplace. At the start of the class, drills will be incorporated to develop proper techniques. Other activities such as business and personal letters will be completed.

Power Standards:

- Demonstrate proper keyboarding skills.
- Type using the touch method.
- Type with a reasonable degree of speed and accuracy.
- Set up letters and materials in proper form.

Advanced Keyboarding

Course Number: 761	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

PREREQUISITE: Keyboarding

This course is designed to advance the student to develop speed and accuracy using the techniques developed in keyboarding using the touch method and through computer lab exercises. Keyboarding software and web-based applications will be used throughout the course.

Power Standards:

- Demonstrate proper keyboarding skills.
- Type using the touch method.
- Type with a reasonable degree of speed and accuracy.
- Set up letters and materials in proper form

Media Production 1

Course Number: 756	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

Plan, script, and produce media projects, using a variety of video / audio creation, and editing applications. Learn to collaborate and create public service announcements, interviews, news casts, animations, and music videos. Students will also learn to make creative, dynamic presentations using iMovie. * Students will also learn to fly drones that record videos and take photos.
Power Standards:

- Understand, analyze, and use different types of print, digital and multimodal media
- Create an informative multimedia work or a piece of digital communication.
- Demonstrate a developmentally appropriate understanding of copyright.

Media Production 2

Course Number: 757	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

Media Production 2 builds on skills acquired in Media Production 1. Plan, script, and produce media projects, using a variety of video / audio creation, and editing applications. Learn to collaborate and create public service announcements, interviews, news casts, animations, and music videos. Students will also learn to make creative, dynamic presentations using iMovie. * Students will also learn to fly drones that record videos and take photos.

Microsoft Office

Course Number: 755	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

This course will explore three parts of the Microsoft Office Software Suite. Word, PowerPoint, and Excel will be taught in an introductory setting. The importance of these applications in today's technological world will be emphasized. Students will gain the skills to create letters, reports, outlines, spreadsheets, and computer visuals.
Power Standards:

- Create and edit a Word document that contains tables and charts.
- Create worksheets that contain formulas.
- Create a slideshow presentation utilizing transition and design features.

Industrial Design and Modeling I

Course Number: 750	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Engineering, Manufacturing, and Construction	Credits: .25

Students enrolled in Industrial Design and Modeling will be introduced to and explore the engineering process. Units of study include measuring, design tools, sketching, dimensioning, and production. Students will be introduced to the skills necessary to utilize planning and use precision tools and software in the engineering process.
Power Standards:

- Develop an understanding of the attributes of design.
- Compare and integrate quantitative or technical information expressed in text with information expressed visually

Industrial Design and Modeling II

Course Number: 751	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Engineering, Manufacturing, and Construction	Credits: .25

PREREQUISITE: None

Students enrolled in Industrial Design and Modeling II will explore the study of engineering. Units of study include measuring, sketching, design, and production. Students will be introduced to technological skills and tools to aid in the engineering process.

Power Standards:

- Develop an understanding of the role of troubleshooting research and development, invention, innovation, and experimentation in problem-solving.
- Precisely follow multi-step procedures when carrying out experiments, designing solutions, taking measurements, or performing technical tasks.

Robotics 1

Course Number: 752	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Engineering, Manufacturing, and Construction	Credits: .25

Design, Build, and Program a robot! Learn how creative thinking and problem solving can change your world! Students trace the history, development, and influence of automation and robotics. They learn about mechanical systems, energy transfer, machine automation and computer control systems. Students use a robust robotics platform to design, build, and program a solution to solve an existing problem.

Power Standards:

- Students will describe the purpose of automation and robotics and its effect on society.
- Students will summarize ways that robots are used in today's world and the impact of their use on society.
- Students will describe positive and negative effects of automation and robotics on humans in terms of safety and economics.
- Students will investigate a career related to automation and robotics and determine the requirements for entering the field.

Robotics 2

Course Number: 753	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Engineering, Manufacturing, and Construction	Credits: .25

PREREQUISITE: Robotics 1

Take Your Robotics Skills to the Next Level! Further develop your creativity and problem-solving skills to meet the needs of the 21rst Century workplace! Students enrolled in Robotics will explore a wide range of Robotics topics. Students will explore a variety of mechanisms in search of how different input and output affect robotic functions. Students will be introduced to programming their robots to perform precise maneuvers and actions in each problem scenario.

Power Standards:

- Students will design, build, wire, and program both open and closed loop systems.
- Students will use motors and sensors appropriately to solve robotic problems
- Students will troubleshoot a malfunctioning system using a methodical approach.
- Experience the responsibility of a mechanical, electrical and computer engineer through completion of robotic problems.

Digital Design 1

Course Number: 762	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

This introductory course provides students with a foundational understanding of the concepts and tools used in the commercial graphics and printing industries. Students will learn to use professional 2-D graphic design software to create vector-based images, which are essential for a variety of applications in graphic design and printing. Through hands-on projects, such as logo creation and t-shirt printing designs, students will gain practical experience in producing high-quality vector artwork. While this course offers valuable skills for those pursuing careers in design and printing, it is not a prerequisite for enrolling in Digital Design 2.

Digital Design 2

Course Number: 763	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Business, Arts, Communication, and IT	Credits: .25

This course introduces students to the concepts and tools used in the commercial graphics and printing industries. Students will focus on digital manipulation and enhancement of photographic imagery, learning how to use advanced graphic design software for various commercial applications. The course emphasizes the role of digital design in the graphics industry, with practical experience in enhancing images for a range of media, including advertising, marketing, and print production. By the end of the course, students will have a strong understanding of the commercial uses of digital graphics and how to apply industry-standard software tools.

Intro to Coding and Automation

Course Number: 740	Grades: 7 and 8	Length: 1 Term
Course Type: Elective	Pathway: Engineering, Manufacturing, and Construction	Credits: .25

In this hands-on elective course, students will learn how to code using a microcontroller and various sensors to bring their creative ideas to life. Focusing on programming and problem-solving, students will work on exciting, project-based activities that combine coding skills with real-world applications. By the end of the course, students will have developed a solid understanding of how to write code to control sensors, LED's, and other electronic components to create interactive projects.
Power Standards:

- 2-CS-02 6-8 - Design projects that combine hardware and software components to collect and exchange data.
- 2-AP-10 6-8 - Use flowcharts and/or pseudocode to address complex problems as algorithms.
- 2-AP-11 6-8 - Create clearly named variables that represent different data types and perform operations on their values.
- 2-AP-13 6-8 - Decompose problems and subproblems into parts to facilitate the design, implementation, and review of programs.
- 2-AP-12 6-8 - Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.
- 2-AP-15 6-8 - Seek and incorporate feedback from team members and users to refine a solution that meets user needs
- 2-AP-18 6-8 - Distribute tasks and maintain a project timeline when collaboratively developing computational artifacts.
- 2-AP-19 6-8 - Document programs in order to make them easier to follow, test, and debug.