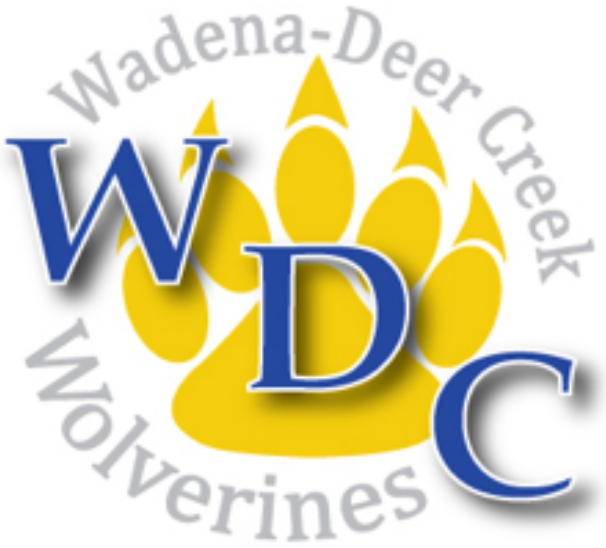
WADENA-DEER CREEK HIGH SCHOOL

COURSE CATALOG



2025-2026

Table of Contents

General Information

Curriculum Departments and Course Overviews

Using the Course Catalog

Before choosing your classes, you need to know your graduation requirements. You should also read the course descriptions carefully to determine if you are eligible to take the course. Along with the course descriptions will be a chart that includes credit, required/elective status, prerequisites and which career pathway(s) best match the course.

Department	Elective and/or Required
Grades allowed in course	Credit and length of course
Career Pathways	Prerequisite requirement

Career Pathways

H.O.T. - Hands-On/Technical
S.T.E.A.M. - Science, Technology, Engineering, Arts, Mathematics
H.H.S. - Health and/or Human Services

Prerequisites

A prerequisite is a course that must be taken before taking a more advanced course. Please see individual course descriptions for more information.

Course Add/Drop/Change Protocol

All students must have a complete schedule. Students may amend their assigned course schedules the first three days of the semester by visiting with the school counselor and getting a schedule change form signed by teachers affected and a parent/guardian. Schedule will only be changed after returning this form to the school counselor.

Schedule Changes

Schedules will be changed for the following reasons:

- Course size imbalance
- Schedule conflicts
- Credit needs

Schedules will NOT be changed for the following reasons:

- Teacher preference
- Be with friends

Incompletes

All incomplete semester grades ("I") must be made up within 10 school days of the semester end date at which point a failing grade will be entered. In unique circumstances, such as illness or family emergency, more time may be provided by the principal.

Required Courses/Graduation Requirements

The following table shows the required courses and credits for each of the four grade levels at WDC. A 1 semester course at WDC equals 1 credit. A year (2 semesters) course at WDC equals 2 credits. Students need the 34 required credits listed below along with 18 elective credits for a total of 52 credits.

	Course/Credits		Course/Credits
English 8 credits	English 9: 2 credits English 10: 2 credits English 11: 2 credits Choose 2 of the following: Mythology: 1 credit Film Studies: 1 credit English 1101: 1 credit English 1205: 1 credit Communications 1120: 1 credit	**Social Studies** 8 credits	Civics: 2 credits US History: 2 credits World History: 1 credit World Geography: 1 credit Economics: 1 credit Psychology: 1 credit or Sociology: 1 credit
Math 6 credits	Algebra I: 2 credits Geometry: 2 credits Algebra II: 2 credits Precalculus: 2 credits Algebra 1114: 1 credit Funct./Trig 1115: 1 credit Calculus 1134: 2 credits	**Science** 6 credits	Physical Science: 2 credits or Earth Science: 2 credits Biology: 2 credits Chemistry: 2 credits or Physics/POE: 2 credits
PE 2 credits	PE 9: 1 credit PE 10: 1 credit	**Health** 2 credits	Health 9: 1 credit Health 10: 1 credit
Fine Arts 2 credits	Choir: 2 credits or Band: 2 credits or Art courses: 1 credit and/or Guitar: 1 credit	**Class of 28 and beyond **Class of 29	Personal Finance: 1 credit Only 1 health course, change in civics/government

College Level Courses at WDC

At Wadena-Deer Creek High School eligible juniors and seniors can take up to 22 college credits while never leaving the building. These courses are taught in our building by our staff. At WDC we offer college courses in algebra, English, and calculus. These courses provide students college level rigor and experience. Here is the best part, it costs the students and parents nothing. There are no fees, no tuition bills, and no costly books! The agreement between WDCHS and M|State covers all the expenses. Students who successfully complete the program will save their families over $5,000.00 in tuition alone!

- College Writing 1101
- Writing about Literature 1205
- Communications 1120
- College Algebra 1114
- Functions/Trigonometry 1115
- Calculus I 1134

Requirements for these courses are set by M|State; juniors need a 3.2 GPA while seniors need a 2.8 GPA. There are also many online course options available; students interested should see the school counselor.

Another college course we teach is Intro to Education through Sourcewell.

Articulated Credits

An articulation agreement is when a high school course can take the place of a college course at that specific college only.

Central Lakes College – Brainerd/Staples

- Small Gas Engines
- Intro to Welding & Advanced Welding
- Intro to Woodworking & Advanced Woodworking

NCAA Clearinghouse

Any student-athlete planning to participate in college athletics must register with the NCAA Clearinghouse. Any student who wants to compete in Division I or II athletics must have taken NCAA-approved curriculum in high school. Go to www.eligibilitycenter.org to register and see a list of approved courses for WDC.

	English	Math	Science	More E,M,& S	Social	Additional	Total
Division I	4	3	2	1	2	4	16
Division II	3	2	2	3	2	4	16

Minnesota State Universities High School Preparation Requirements (minimum)

Subject	Years in High School	WDC Credits
English Language Arts	4	8
Mathematics	3	6
Science	3	6
Social Studies	3	6
World Language	2	4
Visual or Performing Arts	1	2

NOTE: University of Minnesota, Twin Cities requires 4 years of math for admissions. They also prefer students to have chemistry and physics. See colleges' websites for most up to date information.

Post-Secondary Enrollment Options (PSEO)

Students who meet the requirements are eligible to take regular college classes at no cost at participating four-year colleges and universities or two-year community and technical colleges in Minnesota. Students who are interested in this option should contact the Counselor's Office.

Postsecondary Enrollment Options (PSEO) is a program that allows 10th-, 11th- and 12th-grade students to earn both high school and college credit while still in high school, through enrollment in and successful completion of college nonsectarian courses at eligible participating postsecondary institutions. Most PSEO courses are offered on the campus of the postsecondary institution; some courses are offered online. Each participating college or university sets its own admissions requirements for enrollment into the PSEO courses. Eleventh and 12th-grade students may take PSEO courses on a full- or part-time basis; 10th graders are eligible to enroll in PSEO on a more limited basis (see note below). Students must meet the PSEO residency and eligibility requirements and abide by participation limits specified in Minnesota Statutes, section 124D.09. If a school district determines a pupil is not on track to graduate, she/he may continue to participate in PSEO on a term by term basis.

By March 1 of each year, or three weeks prior to the date a student registers for courses for the following school year (whichever is earlier), schools must provide PSEO information to all students in grades 8-11 and their families. To assist the district in planning, a student must inform the district by May 30 of each year of their intent to enroll in postsecondary courses during the following school year.

There is no charge to PSEO students for tuition, books or fees for items that are required to participate in a course; however, students may incur fees for equipment that becomes their property when the course or program is completed, textbooks that are not returned to the postsecondary institution according to their policies, or for tuition costs if they do not notify the district by May 30 and the district does not waive this date requirement.

Funds are available to help pay transportation expenses for qualifying students to participate in PSEO courses on college campuses. For more information on these funds, *access the PSEO Mileage Reimbursement Program Instructions*.

Enrolling in a PSEO course does not prohibit a student from participating in activities sponsored by the high school.

School districts must allow a PSEO student reasonable access to the high school building, computers and/or other technology resources during regular school hours to participate in PSEO courses, whether on-line or on campus.

Each year, districts must publish their grade-weighting policy on their website, including a list of courses for which students can earn weighted grades.

All courses taken through the PSEO program must meet graduation requirements. Districts must transcript credits earned in PSEO by a ratio prescribed in statute. Districts have the authority to decide which subject area and standards the PSEO course meets. If there is a dispute between the district and the student regarding the number of credits granted for a particular course, the student may appeal the board's decision to the commissioner. The commissioner's decision regarding the number of credits will be final.

Postsecondary institutions are required to allow PSEO students to enroll in online courses consistent with the institution’s policy regarding postsecondary student enrollment in online courses.

Tenth-grade students may initially enroll in one Career and Technical Education (CTE) PSEO course if they receive a reading proficiency score of “meets” or “exceeds” on the 8th grade MCA. If 10th graders taking a CTE PSEO course earn at least a grade C in that class, they may take additional postsecondary courses. If the student did not take the MCA in 8th-grade, another reading assessment accepted by the enrolling postsecondary institution can be substituted. For students with disabilities, there is an alternative option to demonstrate reading proficiency.

AGRICULTURE FOOD & NATURAL RESOURCES

Natural Resources and Forestry

AFNR	Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M.	No prerequisite

Students will learn about trees and how Forestry is one of Minnesota's most important commodities. Students will also learn about forestry practices, harvest, and products. Students will complete a tree identification project. We will take several trips to Green Island for hands-on learning with tools and industry practices.
Students will have the opportunity to compete in the Fish and Wildlife as well as Forestry FFA Career Development Events.
Careers: Game warden, conservation officer, wildlife biologist, forester, conservationist

Wildlife Management

AFNR	Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M.	No prerequisite

Students will learn about wildlife species in Minnesota, such as mammals, game birds, non-game birds, fish, and insects. Students will learn about how these species are managed in Minnesota to maximize their viability and use to humans and nature. Students will learn to identify many of the common species in Minnesota. Students will have the opportunity to compete in the Fish and Wildlife as well as Forestry FFA Career Development Events.
Careers: Game warden, conservation officer, wildlife biologist, conservationist

Minnesota Outdoors

AFNR	Elective
9, 10, 11, 12	1 credit (semester class)

H.O.T. , S.T.E.A.M.	No prerequisite

Students will look into the management and use of natural resources and how they are managed in the United States. Students will have the opportunity to learn all about the government programs and agencies (like the US Fish and Wildlife Service and the National Parks Service) that support the American model for conservation of natural resources. Students will also build a fishing rod in class and get the opportunity to go fishing later in the semester.Students will have the opportunity to compete in the Fish and Wildlife as well as Forestry FFA Career Development Events.
Careers: Game warden, conservation officer, wildlife biologist, conservationist

Food Science

AFNR	Elective
9, 10, 11, 12	1 credit (semester class)
H.H.S., H.O.T.	No prerequisite

This beginner-level course is perfect for students who are eager to learn the basics of food preparation, cooking techniques, and kitchen safety. Through hands-on activities and engaging lessons, students will build essential skills that will serve them well both in the kitchen and beyond.This course is designed to make cooking fun and accessible while laying a solid foundation for future culinary endeavors. Whether you're looking to improve your cooking skills, explore a potential career in the culinary arts, or simply enjoy preparing meals for yourself and others, this class is a perfect starting point.

Careers: Students will have the opportunity to compete in the Food Science and Technology, Meat Evaluation and Technology, and Milk Quality and Products FFA Career Development Events. Knowledge from the course could be used in future careers such as: Chef, Restaurant Manager, Food Critic/Writer, Caterer, Food Scientist, Nutritionist/Dietitian, Baker

Global Foods

AFNR	Elective
9, 10, 11, 12	1 credit (semester class)

H.H.S., H.O.T.	Prerequisite: Food Science

Come along on a delicious adventure around the world with the Global Foods class! In this fun course, you'll discover different cuisines, learn new cooking techniques, and explore the cultural traditions of various countries. Through hands-on cooking, learning about different cultures, and working on group projects, you'll get to experience and appreciate the diverse flavors and stories behind international foods.

Careers: Students will have the opportunity to compete in the Food Science and Technology, Meat Evaluation and Technology, and Milk Quality and Products FFA Career Development Events. Knowledge from the course could be used in future careers such as: Travel and Food Blogger/Vlogger, International Food Importer/Exporter, Hospitality Manager, Global Marketing Specialist, Chef, Restaurant Manager, Food Critic/Writer.

Homesteading

AFNR	Elective
10, 11, 12	1 credit (semester class)
H.H.S., H.O.T.	Prerequisite: Food Science

This hands-on course introduces students to the fundamentals of homesteading and self-sufficient living. Students will learn essential skills such as gardening, animal care, food preservation, and sustainable living practices. Topics include composting, seed saving, raising small livestock, and making homemade products. Through practical projects and real-world applications, students will gain the knowledge and confidence to grow, raise, and create what they need for a more independent lifestyle. This course is ideal for students interested in agriculture, sustainability, or simply learning valuable life skills.

Careers: Students will have the opportunity to compete in the Food Science and Technology, Meat Evaluation and Technology, and Milk Quality and Products FFA Career Development Events. Knowledge from the course could be used in future careers such as: Food Scientist, Food Engineer, Food .Production Manager, Food Safety Inspector, Sustainable Farmer, Livestock Manager, Gardener.

Plumbing and Electricity

AFNR	Elective
10, 11, 12	1 credit (semester class)
H.O.T., S.T.E.A.M.	No prerequisite

Students will learn the basics about some of the most in-demand trades: plumbing and electricity. Students will learn the basics about plumbing and how crucial it is to the American infrastructure. They will learn the basics of plumbing in a sink, toilet, shower, etc. using copper, PVC, and PEX tubing. Students will learn how to wire basic outlets, switches, lights and more, all while learning how electricity works. These skills are useful to know for your own home, and for a career. Students will have the opportunity to compete in the Ag Mechanics FFA Career Development Event if they have had some additional industrial technology courses.
Careers: Plumber, electrician, carpenter, HVAC, etc.

Ag Business and Marketing

AFNR	Elective
10, 11, 12	1 credit (semester class)
S.T.E.A.M.	No prerequisite

Students will learn about the different types of businesses, how to complete a market analysis on a business, learn to complete surveys accurately and precisely, practice skills in speech and pitch development and presentation delivery, and much more. Students will also develop a business proposal, and complete the course with a final pitch and market plan.

Students will have the opportunity to compete in the Farm Business Management, Ag Communications, Market Plan, and Ag Sales FFA Career Development Events.
Careers: Sales, marketing, finance, business

Leadership and Service

AFNR	Elective
10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M., H.H.S	No prerequisite

Unlock your potential and make a difference in your community with our Leadership and Service class. This course is designed to develop essential leadership skills and instill a strong sense of civic responsibility through hands-on service projects and interactive learning. Students will explore leadership principles, engage in community service, and work on real-world projects to enhance their ability to lead and serve effectively.

Careers: Students will have the opportunity to compete in FFA Leadership Development Events such as Agricultural Issues and Prepared Public Speaking. Knowledge from the course could be used in future careers such as: Nonprofit Manager/Executive Director, Public Administrator, Program Coordinator, Volunteer Coordinator, Political Leader/Elected Official.

Companion Animal Science

AFNR	Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M.	No prerequisite

This course explores the science and care of companion animals, including dogs, cats, rabbits, birds, reptiles, and small mammals. Students will learn about animal behavior, nutrition, anatomy, genetics, health care, grooming, and training techniques. The course will also cover disease prevention, responsible pet ownership, and careers in the companion animal industry. Hands-on activities may include animal handling, first aid, breed identification, and care practices.

Careers: Students will have the opportunity to compete in the General Livestock, Dairy Cattle, or Horse Evaluation, and Companion Animal Science FFA Career Development Events. Knowledge from the course could be used in future careers

such as: Veterinarian, Veterinary Technician, Zoologist, Animal Behaviorist, Animal Trainer, Pet Groomer, Animal Control Officer, Animal Science Researcher, Farm Animal Caretaker, Animal Nutritionist.

Livestock Animal Science

AFNR	Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M.	No prerequisite

This course provides students with a comprehensive understanding of livestock management, animal health, and agricultural production. Students will explore topics such as animal nutrition, genetics, breeding, anatomy, disease prevention, and sustainable livestock practices. A key focus will be on identifying and understanding different breeds and types of livestock, including cattle, swine, sheep, goats, poultry, rabbits, and horses. Hands-on activities will include evaluating livestock, learning proper handling techniques, and studying breed characteristics.

Careers: Students will have the opportunity to compete in the General Livestock, Dairy Cattle, or Horse Evaluation, and Companion Animal Science FFA Career Development Events. Knowledge from the course could be used in future careers such as: Veterinarian, Veterinary Technician, Zoologist, Animal Behaviorist, Animal Trainer, Pet Groomer, Animal Control Officer, Animal Science Researcher, Farm Animal Caretaker, Animal Nutritionist.

Plant Science (fall)

AFNR	Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M.	No prerequisite

Discover the exciting world of plants in the Introduction to Plant Science class! This course is perfect for students interested in how plants grow, needs of plants, how to successfully grow them, garden design, and. You'll get hands-on experience with plant care, learn the science behind plant growth, and work on creative projects to understand how to manage and grow plants effectively.

Careers: Students will have the opportunity to compete in the Crops, Floriculture and Nursery/Landscape Technology FFA Career Development Events.
Knowledge from the course could be used in future careers such as: Landscape Architect, Plant Scientist, Greenhouse Manager, Agronomist, Farmer, Gardener.

Greenhouse Management (spring)

AFNR	Elective
10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M.	Plant Science

Students will learn about advanced plant science. This course will also be responsible for growing plants for the FFA's spring plant sale. Students will work in groups and will need to successfully grow plants, as well as learn about the advanced anatomy of plants. Students will also learn about the advanced workings of a greenhouse and will work through the scientific method, completing an agriscience project.

Students will have the opportunity to compete in the Crops, Floriculture and Nursery/Landscape Technology FFA Career Development Events.
Careers: Plant scientist, researcher, geneticist, agronomist, farmer, greenhouse manager, gardener, etc.

Floral and Landscape Design (Spring)

AFNR	Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T.	Plant Science

This dynamic and hands-on course introduces students to the art and science of floral and landscape design. Students will explore the principles of floral arrangement, plant selection, and landscape planning while developing both creative and technical skills. Through practical projects, students will learn flower care, arrangement techniques, business principles of running a floral shop, and the cultural significance of floral design. They will also study common landscape plant species, the six principles of design, and professional drafting techniques using grid paper and an architect's scale. The course culminates in the

installation of a landscape project, allowing students to apply their knowledge in a real-world setting.

Careers: Students will have the opportunity to compete in Floriculture and Nursery/Landscape Technology FFA Career Development Events and gain experience that can lead to careers in floral design, event planning, landscaping, architecture, nursery management, and interior/exterior design.

ART - VISUAL

General Art

ART	Required/Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M.	No prerequisite

An introductory course in basic art fundamentals. An understanding of the elements of art and the principles of design along with creative expression and individuality through exploration of projects using various mediums and techniques. Careers: Curator, Gallery worker, Decorator, Art Therapist

Drawing

ART	Required/Elective
10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M.	Prerequisite: General Art

Build on foundational skills learned in General Art. Students are introduced to the creative process step-by-step in drawing and shading techniques. Other mediums are used through separate drawing projects that are either realistic, surreal or abstract. Careers: Fine Artist, Caricature Artist, Tattoo Artist, Sketch Artist, Cake Decorator

Sculpture

ART	Required/Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M.	Prerequisite: General Art

Express creativity in 3-D forms through exploration and experimentation. Build interesting pieces that are both functional and non-functional. Creativity is expressed through aesthetic features. Careers: Craft Artist, Production Display Creator, Ice Sculptor, Production Designer

Painting

ART	Required/Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M.	Prerequisite: General Art

Build on foundational skills learned in General Art. Explore different paint mediums and build confidence when using color and how color affects our experiences in art around us. Careers: Fine Artist, Sign Painter, Muralist, Make-Up Artist

2-D Design

ART	Required/Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M.	Prerequisite: General Art

Apply techniques learned in GeneralArt. Learn to plan, layout and create your organizational thoughts and problem solving skills into artistic designs.
Careers: Illustrator, Calligrapher, Typographer, Advertisement Layout/Logos/Branding

Ceramics

ART	Required/Elective

10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M.	Prerequisite: General Art

Express creativity in 3-D forms through exploration and experimentation. Learn form, function and decoration through hand building techniques with an introduction to wheel thrown pottery. Add your own style through glazing techniques.
Careers: Potter, Craft Artist

Independent Art

ART	Elective
12	1 credit (semester class)
H.O.T. , S.T.E.A.M.	Prerequisite: General Art, Art Classes, and Teacher Approval

Offered to those who are interested in expanding their art practice and knowledge in an independent structure. Learn time management skills and follow through on your plan to personal growth, style and creativity.
Careers: Fine Artist, Craft Artist, Designer, Home Stager, Studio Assistant.

BUSINESS

Personal Finance

BUS	Elective/Required (class of 2028)
11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M., H.H.S.	No prerequisite

This course covers financial literacy which includes budgeting, bank accounts and management, preparing taxes, and investments. This course would be helpful for all careers since understanding how to manage money is a skill used by all.

Career Development

BUS	Elective
11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M., H.H.S.	No prerequisite

In this course students will explore their own interests and learn which career(s) might be right for you. Then students will research what is required for obtaining those careers. Students will also learn job-seeking skills along with workplace skills needed for all jobs.

Accounting

BUS	Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T.	No prerequisite

Learn how to properly keep track of your finances and prepare the necessary financial statements needed to succeed. After completion of the course, students will have a working knowledge of basic accounting to successfully maintain a business. This course will be very beneficial to anyone wanting to work in a business field or run their own business of any kind.

Marketing

BUS	Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T.	No prerequisite

This is a semester class that explores fundamentals of marketing. Topics include advertising, promotion and sales of all types of businesses including sports, entertainment, local businesses, etc. Students will explore the fundamentals of marketing and how these methods are used to create, maintain, and promote products using the web and social media.

Graphic Design

BUS	Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T. , S.T.E.A.M., H.H.S.	No prerequisite

Unleash your creativity and explore the world of graphic design through real-world projects and career connections. In this hands-on course, students will learn design principles, typography, color theory and digital tools while creating professional-level projects such as brand logos, social media graphics, magazine layouts and product packaging. Students will also have the opportunity to develop a portfolio, engage with guest speakers from the industry, and even take on client-based design challenges. Whether you're interested in a creative career or just want to sharpen your digital design skills, this course will help you bring your ideas to life.

School Service

BUS	Elective
11, 12	1 credit (semester class)
H.H.S.	No prerequisite

Students work with teachers helping them with a variety of areas from making copies, correcting papers and/or working directly with students. This course is graded Pass/Fail.

CAREER AND TECHNICAL EDUCATION

Introduction to Welding

CTE	Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T.	No prerequisite

This intro level course students are exposed to basic welding skills used at home or on the job. Students gain basic theory and practice related to stick (SMAW), wire feed, (GMAW), tig (GTAW) and oxy/acetylene welding as well as blueprint reading related to the welding industry. This is an articulated course and may be used at Central Lakes

College for credit. Skills gained will also allow students to perform satisfactorily on entry-level welding tests required for employment.

Advanced Welding

CTE	Elective
10, 11, 12	1 credit (semester class)
H.O.T.	Prerequisite: Intro to Welding

This second level course allows students to apply what they learned in the Intro to Welding (Welding I) course on advanced welding skills such as overhead, vertical, flux core, brazing, and cutting. The second half of the course the students display their skills by choosing and completing a complex project of their choice. This is an articulated course and may be used at Central Lakes College for credit. Material fees are collected for projects. Students must have completed the Welding I course with a B or higher and have the instructor's approval.

Intro to Woodworking

CTE	Elective
9, 10, 11, 12	1 credit (semester class)
H.O.T.	No prerequisite

This introductory level course allows students to gain material and assembly knowledge related to woodworking and cabinetry. Students display their skills by choosing and completing basic projects to gain an understanding of the safe operation of tools, selection of material, and assembly techniques. This is an articulated course and may be used at Central Lakes College for credit. Material fees are collected for projects. This course is a pre-requisite for the Advanced Woodworking (Woods II) course.

Advanced Woodworking

CTE	Elective
10, 11, 12	1 credit (semester class)

H.O.T.	Prerequisite: Intro to Woodworking

This second level course allows students to apply what they learned in the Intro to Woodworking (Woods I) course on advanced woodworking projects of their choice. The second half of the course the students display their skills by choosing and completing a complex project of their choice. Students create detailed drawings, bill of materials, and their custom project(s). This is an articulated course and may be used at Central Lakes College for credit. Material fees are collected for projects. Students must have completed the Introduction to Woodworking (Woods I) course with a B or higher and have the instructor's approval.

Computer Aided Design (CAD)

CTE	Elective
9, 10, 11, 12	1 credit (semester class)
S.T.E.A.M.	No prerequisite

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, 3D printer, and Kern Laser and use an engineering notebook to document their work. Hands-on activities include creating a Puzzle Cube, 3D solids modeling and production of toy car parts, and student developed product design, development, and testing. Participation in this course is encouraged in combination with the NASA HUNCH course.

NASA HUNCH

CTE	Elective
9, 10, 11, 12	2 credits (year-long class)
S.T.E.A.M.	No prerequisite

High school students United with NASA to Create Hardware or HUNCH is an innovative program that partners NASA Centers with schools nationwide. The partnership involves students fabricating real-world products for NASA and astronauts aboard the

International Space Station (ISS) and future Artemis missions to the Moon and Mars. They apply their science, technology, engineering, and mathematics (STEM) skills while learning to work in teams and think creatively. Students gain personal relationships with NASA engineers and all who complete receive a letter of recommendation as they apply for scholarships and college entrance. NASA HUNCH brings students new educational experiences with NASA projects in the following areas: Design and Prototyping, Biomedical Science, Computer Hardware and Software, and Flight Configuration. Students compete regionally and can earn a trip to compete nationally at Johnson Spaceflight Center in Houston Texas in April. Students can take this course multiple years as projects change each year.

Principles of Engineering (Physics)

CTE	Required
11, 12	2 credits (year-long class)
S.T.E.A.M.	No prerequisite

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Hands-on activities include extensive work with VEX robotics, bridge and truss construction, and model making. Students are required to take either Physics OR Chemistry as a graduation requirement.

Small Gas Engines

CTE	Elective
10, 11, 12	1 credit (1 semester class)
H.O.T.	No prerequisite

Small Gas Engines is a hands-on class that allows students to develop skills that can be used at home or on the job. The activities consist of a rebuild of a school owned engine

followed by a rebuild/restoration of a personal project. Shop-work will consist of disassembly, reconditioning, assembly, and restoration of a small gas/diesel engine. Advanced work can involve performance options. High level student work will be displayed at the 2024 Minnesota State Fair. Must complete small gas engines with a B+ or better to be eligible for admission into Large Gas Engines. Students will also troubleshoot and tune-up engines. This is an articulated course and may be used at Central Lakes College for credit.

CorelDraw

CTE	Elective
9, 10, 11, 12	1 credit (semester class)
S.T.E.A.M.	No prerequisite

This hands-on course allows students the opportunity to exercise their creativity with still images with current technological tools. Students will be shown multiple ways to capture and modify images combining the art of photography with current digital enhancement tools. Understanding CorelDraw fundamentals are a mandatory component of operating our Kern Laser. Students may be charged a small material fee for printing/engraving of personal projects. (Computer based in lab setting)

Work Based Learning

CTE	Elective
12	1-4 credits (semester or year-long class)
H.H.S., H.O.T., S.T.E.A.M.	No prerequisite

This course is replacing On-Job Training from past years. Students will have a conversation with the coordinator to plan for a future career, and based on the discussion, students will be placed with a jobsite. Throughout the semester, students will get the chance to work at a real world job and gain insight to careers in that area. Students also get to work on career preparation skills like creating resumes, cover letters, practice a job interview and more. Students will have the opportunity to compete in the Employment Skills, Prepared Public and Extemporaneous Speaking Leadership Development Events.

CDL (Commercial Driver's License)

CTE	Elective
12	1 credit (semester class)
H.O.T	No prerequisite

This is an online course to prepare you to take the CDL permit test.

ENGLISH LANGUAGE ARTS

English 9

ELA	Required
9	2 credits (year-long class)
S.T.E.A.M., H.H.S., H.O.T.	No prerequisite

Students will practice reading, writing, and speaking skills--using various methods to generate and communicate ideas effectively. The processes, products, and people-skills developed in this course seek to connect with a variety of useful career/life applications.

English 10 - American Literature

ELA	Required
10	2 credits (year-long class)
S.T.E.A.M., H.H.S., H.O.T.	Prerequisite: English 9

Reading will focus on U.S. authors and examples of their varied works.
Speaking and listening will focus on discussion of the material read/viewed and how it connects with the development of U.S. literature. Writing will focus on student's use of thinking skills to analyze, evaluate, and communicate assigned reading, discussion, and viewing activities.

English 11 - British Literature

ELA	Required

11	2 credits (year-long class)
S.T.E.A.M., H.H.S., H.O.T.	Prerequisite: English 10

Students will practice reading, writing, and speaking skills--using various methods to generate and communicate ideas effectively. The processes, products, and people-skills developed in this course seek to connect with a variety of useful career/life applications.

Mythology

ELA	Required/Elective
11, 12	1 credit (semester class)
S.T.E.A.M., H.H.S., H.O.T.	Prerequisite: English 10

Students will gain knowledge of Greek, Nordic, Egyptian and other mythologies.

Film Studies

ELA	Required/Elective
12	1 credit (semester class)
S.T.E.A.M., H.H.S., H.O.T.	Prerequisite: English 10

Students will gain an appreciation for the art form that is cinema. By viewing films in their entirety and watching clips, students will visually assess the quality of film.

English 1101 - College Writing

ELA	Required/Elective
11, 12	1 credit (semester class)
S.T.E.A.M., H.H.S., H.O.T.	Prerequisite: English 10 and GPA requirement set by M|State

This is an introductory writing course designed to prepare students for later college and career writing. The course focuses on developing fluency through a process approach, with particular emphasis on revision. Students will consider purpose and audience, read and discuss writing and further develop their own writing processes through successive

revisions to produce polished drafts. Course work will include an introduction to argumentative writing, writing from academic sources and a short research project.

English 1205 - Writing about Literature

ELA	Required/Elective
11, 12	1 credit (semester class)
S.T.E.A.M., H.H.S., H.O.T.	Prerequisite: English 1101 and GPA requirement set by M|State

This course builds on the foundations of College Writing and provides students with additional opportunities to develop fluency in their writing through a process approach. Students will read critically from a variety of literary genres, explore meaning through academic research and respond through discussion and writing.

Communications 1120

ELA	Required/Elective
11, 12	1 credit (semester class)
S.T.E.A.M., H.H.S., H.O.T.	Prerequisite: English 10 and GPA requirement set by M|State

The goal of this course is to help students become better communicators. WDC is concerned with teaching how to speak effectively in public. Further, WDC intends to help students understand why some people are more effective and others less effective public speakers. In short, WDC's goal is to provide both the how and the why, to help students become better speakers and better consumers of public communication.

HEALTH AND PHYSICAL EDUCATION

WIN

H/PE	Elective
9, 10, 11, 12	1 credit (year-long class, meets M,W,F)
S.T.E.A.M., H.H.S., H.O.T.	No prerequisite

This course will help build confidence and overall fitness and athletic ability. Students will also learn different fitness techniques and routines that they can use the rest of their lives. The class also creates a tool that future fitness and physical health professionals can use as a base for those careers.

PE/Health 9

H/PE	Required
9	1 credit (semester class)
H.H.S.	No prerequisite

This course blends physical education and health education to promote total wellness. Students will build fitness and teamwork skills through sports and exercise, while also exploring health topics such as healthy habits, goal setting, decision making, body systems, nutrition, and personal safety. Through active participation and classroom learning, students will develop the knowledge and habits needed for a healthy, balanced, and active lifestyle.

Health

H/PE	Required
9, 10	1 credit (semester class)
H.H.S.	No prerequisite

This comprehensive health course equips students with the knowledge and skills to make informed decisions about their well-being. Topics include first aid and CPR, human development, mental and emotional health, substance use and prevention (alcohol, tobacco, and other drugs), and the prevention and management of communicable and

noncommunicable diseases. The course emphasizes real-life application, personal responsibility, and lifelong wellness.

Lifetime Fitness (fall)

H/PE	Required
10, 11, 12	1 credit (semester class)
H.H.S.	PE/Health 9

This course emphasizes physical activities that can be enjoyed throughout life. Students will participate in games and activities such as badminton, pickleball, yard games, walking, and jogging. Students will explore ways to stay active beyond highschool. The goal is to promote lifelong health and well-being through enjoyable, sustainable movement.

Competitive Sports PE (spring)

H/PE	Required
10, 11, 12	1 credit (semester class)
H.H.S.	PE/Health 9

This advanced-level Physical Education course is designed for students with experience in sports who want to compete at a higher level. Students will develop sport-specific skills, improve fitness, and apply strategies in team and individual games like basketball, soccer, volleyball, and more. Emphasis is placed on teamwork, leadership, and sportsmanship. Strong participation and effort are expected

MATHEMATICS

Algebra 1

MATH	Required
9, 10	2 credits (year-long class)
S.T.E.A.M., H.O.T., H.H.S	Prerequisite: Math 8

Algebra I is a continuation of the linear concepts introduced in Math 8. Quadratics will be introduced in this course which will include graphing and solving techniques and applications therein. Polynomials, Exponents, Factoring, Exponential Functions, Radical Functions and rational functions and equations will be worked on as well. The Pythagorean Theorem and the Distance formula will be used in real world applications. Statistics, Data Analysis and Probability are also included in this course. Exponential growth and decay models will be introduced along with right triangle trigonometric ratios as time allows.

Geometry

MATH	Required
9, 10, 11	2 credits (year-long class)
S.T.E.A.M., H.O.T.	Prerequisite: Algebra 1

Geometry is a student's first and possibly only exposure to a true system of logic within high school math courses. The process of inductive reasoning is the first concept taught to the students taking this course and it is this process that students will use throughout the course to make geometric discoveries. Time will also be spent creating definitions of geometric terms, constructing geometric figures, and learning deductive reasoning for the task of writing proofs. Geometry is used in many hands on careers, including construction.

Algebra 2

MATH	Required

10, 11, 12	2 credits (year-long class)
S.T.E.A.M.	Prerequisite: Algebra 1 and Geometry

Algebra 2 is the advanced level of pre-algebra and Algebra 1. It introduces higher level topics such as evaluating equations and inequalities, polynomial functions, quadratic equations, complex numbers, relations, inverse operations, and various other properties. Algebra 2 develops the critical thinking skills students will need once they move on to college level mathematics.

Precalculus

MATH	Required
10, 11, 12	2 credits (year-long class)
S.T.E.A.M.	Prerequisite: Algebra 1, Geometry and Algebra 2

The purpose of this course is to extend mathematical opportunities to students who wish to continue their study of mathematics, but possibly are not ready or pursuing the rigor of a college course. In this course, students will study a variety of topics including number patterns, equations and inequalities, functions and their graphical representations, polynomial and rational functions, exponential and logarithmic functions, trigonometry, trigonometric graphs and identities, trigonometric applications, and matrices.

MATH 1114 - College Algebra

MATH	Elective/Required
11, 12	1 credit (semester class)
S.T.E.A.M.	Prerequisite: Algebra 2 and GPA requirement set by M|State

This is a college-level algebra course that emphasizes properties of functions and their graphs. Linear, quadratic, polynomial, rational, exponential, and logarithmic functions are covered. Other topics include: solving systems of equations and inequalities and matrices.

MATH 1115 - College Functions and Trigonometry

MATH	Elective/Required
11, 12	1 credit (semester class)
S.T.E.A.M.	Prerequisite: MATH 1114 and GPA requirement set by M|State

This course provides a strong emphasis on circular and triangular trigonometric functions. Topics covered include: graphs of trigonometric functions, trigonometric identities, trigonometric equations, polar coordinates, vectors, and conic sections. This course focuses on many real-life situations involving these skills.

MATH 1213 - College Intro to Statistics

MATH	Elective/Required
11, 12	1 credit (semester class)
S.T.E.A.M.	Prerequisite: MATH 1114 and GPA requirement set by M|State

Topics include data summary, frequency distributions, plots, graphs, measures of central tendency, variation, probabilities, probability distributions and confidence intervals. Hypothesis testing of means, proportions and variances will be conducted using the z-test, t-test, chi-square test, f-test and ANOVA. Optional topics may include nonparametric statistics, sampling and simulation.

MATH 1134 - College Calculus

MATH	Elective
12	2 credits (year-long class)
S.T.E.A.M.	Prerequisite: MATH 1114 and 1115 and GPA requirement set by M|State

This course covers topics of differential and integral calculus including limits and continuity, higher-order derivatives, curve sketching, differentials, definite and indefinite

integrals (areas and volumes), and applications of derivatives and integrals.

MUSIC

Concert Band (Band only)

MUS	Required/Elective
9, 10, 11, 12	2 credits (year-long class)
S.T.E.A.M., H.H.S., H.O.T.	Prerequisite: 5-8 Band Program

Playing a musical instrument develops fine motor skills, develops a strong work ethic, develops self-discipline & time management, builds confidence to express emotions, boosts team building, reinforces critical thinking and problem solving skills, utilizes every part of your brain; all skills that can be used in any career. TRANSFER: students must be currently enrolled in their school band program

Concert Choir (Choir only)

MUS	Required/Elective
9, 10, 11, 12	2 credits (year-long class)
S.T.E.A.M., H.H.S.	No prerequisite

Singing in choir develops a strong work ethic, working together for a common goal, develops self-discipline & time management, builds confidence to express emotions, boosts team building, reinforces critical thinking and problem solving skills, utilizes every part of your brain; all skills that can be used in any career.

Concert Band/Choir

MUS	Required/Elective
9, 10, 11, 12	2 credits (year-long class)
S.T.E.A.M., H.H.S., H.O.T.	Prerequisite: 5-8 Band Program

Playing a musical instrument develops fine motor skills, develops a strong work ethic, develops self-discipline & time management, builds confidence to express emotions,

boosts team building, reinforces critical thinking and problem solving skills, utilizes every part of your brain; all skills that can be used in any career. Singing in choir develops a strong work ethic, working together for a common goal, develops self-discipline & time management, builds confidence to express emotions, boosts team building, reinforces critical thinking and problem solving skills, utilizes every part of your brain; all skills that can be used in any career. TRANSFER: students must be currently enrolled in their school band program

Guitar

MUS	Required/Elective
9, 10, 11, 12	1 credit (semester class)
S.T.E.A.M., H.H.S., H.O.T.	No prerequisite

Playing a guitar develops fine motor skills, develops a strong work ethic, develops self-discipline & time management, builds confidence to express emotions, boosts team building, reinforces critical thinking and problem solving skills, utilizes every part of your brain; all skills that can be used in any career.

REACH

REACH

RCH	Elective
9, 10, 11	2 credits (year-long class)
H.H.S.	No prerequisite

REACH stands for Responsibility, Education, Accountability, Character, and Hard Work. REACH class is a positive structured learning environment, a safe place for students to belong, connect, and support each other. Students will set weekly goals for themselves in the areas of personal, academic and family. The curriculum is guided by the needs of the students and may cover topics such as communication skills, social skills, problem-solving, self-image, drug/chemical awareness, healthy relationships, etc. If you

are a student that is interested in improving yourself and learning some healthy strategies for life, REACH is a class that can help you do that.

Advanced REACH

RCH	Elective
11, 12	2 credits (year-long class)
H.H.S.	No prerequisite

REACH stands for Responsibility, Education, Accountability, Character, and Hard Work. REACH class is a positive structured learning environment, a safe place for students to belong, connect, and support each other. Students will set weekly goals for themselves in the areas of personal, academic and family. The curriculum is guided by the needs of the students and may cover topics such as communication skills, social skills, problem-solving, self-image, drug/chemical awareness, healthy relationships, etc. If you are a student that is interested in improving yourself and learning some healthy strategies for life, REACH is a class that can help you do that.

SCIENCE

Earth and Space Science 9

SCI	Required
9	2 credits (year-long class)
S.T.E.A.M.	No prerequisite

Students will learn about the systems of the Earth. Topics include: Astronomy, Meteorology, Hydrology, and Geology.

Biology

SCI	Required
10	2 credits (year-long class)

S.T.E.A.M.	Prerequisite: 7th and 8th grade science

The focus of this class is to expose students to various areas of biology. Careers that would be prepared for in this course could be environmental (DNR, Park Ranger, Environmental Researcher), health (genetic counselor, nurse, lab tech, physical therapist), pharmaceutical, forensics, and ecologist. Topics covered in this course are: Characteristics and Chemistry of LIfe, Cells, Photosynthesis, Cellular Respiration, Genetics, Evolution, Body Systems and Homeostasis, and Ecology.

Chemistry

SCI	Required/Elective
11, 12	2 credits (year-long class)
S.T.E.A.M.	Prerequisite: Earth Science and Biology

This course is designed to give students a basic understanding of chemical principles. Upon completion of this course students should have the skills and content necessary to succeed in college level science courses. Major topics covered are atomic structure, bonding, reactions, states of matter, and solutions.

Genealogy

SCI	Elective
11, 12	1 credit (semester class)
S.T.E.A.M.	No prerequisite

You will ask questions about yourself, your family, and your heritage. You will plan and carry out the investigation of gathering data, analyzing and interpreting the data. Along the way, you will likely find errors in the research and you will need to reevaluate the information. You will learn organization skills to keep track of your data. You will then compile the data in a final project of a genealogy book.

Anatomy & Physiology I

SCI	Elective
11, 12	1 credit (semester class)
S.T.E.A.M.	Prerequisite: Biology

You should take this course if you are interested in the medical field or want to learn more about the human body and how it works. Topics covered in this class could be:The Human Body: An Orientation, Tissues, Skin and Body Membranes, The Skeletal System, The Muscular System, The Nervous System, and Special Senses .

Anatomy & Physiology II

SCI	Elective
11, 12	1 credit (semester class)
S.T.E.A.M.	Prerequisite: Biology

You should take this course if you are interested in the medical field or want to learn more about the human body and how it works. Topics covered in this class could be: The Endocrine System, Blood, The Cardiovascular System, Lymphatic System and Body Defenses, Respiratory System, The Digestive System and Body Metabolism, The Urinary System and The Reproductive System.

Aviation

SCI	Elective
11, 12	2 credits (year-long class)
S.T.E.A.M.	Prerequisite: Earth Science and Biology

Students interested in obtaining the private pilots license or are interested in an aviation related career are encouraged to take this course. Students will spend time learning the FAA rules and regulations for unmanned and manned flight operations.

SOCIAL STUDIES

Civics 9

SS	Required
9	1 credit (semester)
H.H.S.	No prerequisite

Students will learn how to be a responsible U.S. Citizen by understanding the basic framework of the American Government system. Students will learn and explore current issues in law and government and use these to make connections between the present and the past. Areas of study include but are not limited to the the Three Branches of Government, State & Local Government, the role of the citizen in society, the U.S. Economic System and the role of the U.S. in the world.

US History

SS	Required
10, 11	2 credits (year-long class)
H.H.S.	No prerequisite

This is a course in American History specifically designed to cover United States History from Reconstruction to the present time. The purpose of the course is to increase each student's basic knowledge of our country's history and to develop a pride in our country's past. It helps students understand how much courage and sacrifice it has taken to win and keep liberty and justice.

World Geography

SS	Required
10, 11	1 credit (semester class)
H.H.S.	No prerequisite

Students learn about the geography of the world, cultures, and traditions. In each regional unit, students will learn about the region's geography, history, traditions,

economics, daily life, literature, and arts. In addition, the role the region plays in the world today will be examined and discussed. This information will help students work with people of different backgrounds in any career they choose.

World History

SS	Required
10, 11	1 credit (semester class)
H.H.S.	No prerequisite

Students learn the history of the world from the beginning of mankind to the present day. In the units of study, students will learn about: The Beginnings of Civilization, Growth of Civilizations, World in Transition, Age of Exploration and Expansion, World from Absolutism to Revolution, Industrialization and Nationalism, World Wars in the Twentieth Century, and the World Since 1945. This information will help students work with people of different backgrounds in any career they choose.

Economics

SS	Required
12	1 credit (semester class)
H.H.S.	Prerequisite: 9-11 Social classes

Economics is designed to help our students make informed decisions for themselves and assess the decisions made by others.

The content of the course will help students understand key economic principles including but not limited to: (microeconomics)-how markets work, business and labor, money, banking, finance. (Macroeconomics)-measuring economic performance, government and the economy, and the global economy. The students will be required to read assignments from the textbook and handout materials, take notes, work in small group settings, carry out simulation activities, listen to AV materials, hand in written assignments and worksheets, discuss current events in relation to economics.

Sociology

SS	Required/Elective
11, 12	1 credit (semester class)
H.H.S.	Prerequisite: 9-10 Social classes

Sociology is a basic course dealing with human relationships. Students in this course will have an opportunity to study units such as: What Is Sociology? The Nature of Culture, Conformity and Deviance, Roles, Relationships, and Groups, Social Stratification, The Family, Religion and Education, Government and Economic Systems, and the Socialization Process. Skills to be taught are: students will learn to examine the ways people interact with one another, students will develop an appreciation for other cultures and an understanding of behavior unlike their own, students will be able to determine essential needs of society and how those needs are fulfilled by
society, students will determine their own goals and make plans involving their future.

Psychology

SS	Required/Elective
11, 12	1 credit (semester class)
H.H.S.	Prerequisite: 9-10 Social classes

Psychology will be a study of what psychologists of the 20th century have discovered pertaining to human development, mental processes, behavior and social interaction. Some of the topics to be studied include: Psychology as a science, The Brain and Behavior, Perception, Learning Theories, Sleep and Dreams, Motivation and Emotion, Personality Theories, Assessment of Personality, Delinquent Behavior, Attitudes and Social Interaction.

Government

SS	Elective
11, 12	1 credit (semester class)
H.H.S.	Prerequisite: 9-10 Social classes

This is a new class looking at the government for our juniors and seniors.

SPANISH

Spanish 1

SPAN	Elective
9, 10, 11, 12	2 credits (year-long class)
H.H.S., S.T.E.A.M.	No prerequisite

This course teaches basic language patterns and vocabulary. The focus is on all four language skills; reading, writing, speaking, and listening, as well as the culture of the Spanish speaking world. Topics covered include common expressions of greeting, introductions, nouns and articles, the Spanish alphabet, numbers, vocabulary associated with school, friends, family, and names for people, as well as present tense conjugations.

Spanish 2

SPAN	Elective
10, 11, 12	2 credits (year-long class)
H.H.S., S.T.E.A.M., H.O.T.	Prerequisite: Spanish I

This course expands on the basic language patterns and vocabulary. The focus is on all four language skills; reading, writing, speaking, and listening, as well as the culture of the Spanish speaking world. Emphasis on Spanish Culture and past tenses.

Introduction to Education - SCSU

CTE	Elective
11, 12	1 credit (semester class)
H.H.S.	Prerequisite: 3.0 GPA

This is an introductory course to teaching. It is taught through SourceWell and is a hybrid course with most being online but with some zoom meetings. Students will learn about what it takes to be a teacher along with a requirement to be in the classroom.