

# Willmar Senior High School 2023-2024 Curriculum Guide

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# Registration Guidelines

The purpose of this guide is to provide a description of all courses, their grade level requirements, prerequisites, graduation standards and credit values. All students must register for 16 credits per year. Study hall is not available. Careful planning will enable students to select from a wide range of options after graduation. Registration worksheets are provided and a 4 year planning guide is included in this book to assist with this process.

Classes are available to all students regardless of race, gender, ethnicity of disability.

This registration is for the 2023-2024 school year. Careful registration is very important. Many students will be scheduled for their alternates due to limited availability in some classes.

Click [HERE](#) to go to the WHS Counseling Office page for more registration information, including videos provided to help guide students through the registration process. Each Department has provided a video to aid in understanding their course choices. The department heading is a link that will take you to each video. In some cases, individual courses are linked to a video - those will be underlined.

## **Schedule Changes**

Schedule changes may be needed because of inappropriate placement, failures, not taking the prerequisites, conflicts in the master schedule, class load, balance, class cancellation, or scheduling errors.

Schedule changes made by parents and students may be considered by counselors on a case by case basis and where space is available. Counselors will take into account class balance, section size and necessity when considering any schedule change request. No schedule changes may be made after two days into a new term unless parent/guardian, counselor, teacher dropping, teacher adding and assistant principal agree. No class changes will be considered beyond day three of each term unless circumstances are exceptional (e.g. health related or IEP related) and the change is approved by the Principal.

## **Block Schedule**

Students at Willmar Senior High School, in the 2023-2024 school year, will be using a Block Schedule. The block schedule means that students attend four 90-minute classes per day and will complete a year long course in half of a school year. The school year will be divided into four 9-week periods called terms. Each term of a class successfully completed earns one (1) credit.

For example: Physical Education is a one term (one credit) class, that is a half year course, completed in one fourth of a school year. English is a two term (two credit) class, that is a year long course, completed in half of a school year.

## Grading System

A final grade and credit is given for each course at the end of a term. The grade point average (GPA) is calculated on a 4.0 system for all classes except Advanced Placement (AP), Project Lead the Way (PLTW), and Concurrent Enrollment (College in the Schools/CIS). AP, PLTW, and CIS classes receive a weighted grade. The following scale defines GPA Values.

Grade	Point Value	AP and PLTW Point Value	CIS point value
A	4.0	4.5	4.25
A-	3.67	4.17	3.92
B+	3.33	3.83	3.58
B	3.0	3.5	3.25
B-	2.67	3.17	2.92
C+	2.33	2.83	2.58
C	2.0	2.5	2.25
C-	1.67	2.17	1.92
D+	1.33	1.33	1.33
D	1.0	1.0	1.0
D-	0.67	0.67	0.67
F	0	0	0

## College Credit Opportunities at WHS

### Advanced Placement (AP)

Advanced Placement is a program of college level courses and exams for high school students. Colleges will award credit based on scores on the AP Test. Score requirements vary by college. An AP course is a challenging college level learning experience for academically talented high school youth. There is a fee for each examination taken with testing usually administered in the second or third week in May. Visit the [WHS AP Website](#) for more information.

### Project Lead the Way (PLTW)

Project Lead the Way (PLTW) is a hands-on project and problem-solving based pre-engineering curriculum which combines science, technology, engineering, and math skills with a series of challenging and rigorous classes. PLTW courses introduce students to engineering and technical

processes that are used in careers related to Drafting, Electronics, Machining, Architecture, Engineering and related technical fields.

PLTW courses current offered are: Introduction to Engineering Design 1 & 2, Civil Engineering and Architecture, Principles of Engineering 1 & 2, Digital Electronics 1 & 2, and Engineering Design and Development. Students may qualify for up to six college credits if courses are completed with 85% or better and if they score well on the course examination given at the end of part 2 of each course. Grades will be weighted in level 2 courses and Civil Engineering and Architecture.

PLTW students are also required to be enrolled in math courses at the highest level they are capable of handling to assist them with course assignments.

### **Post Secondary Enrollment Options Program (PSEO)**

The PSEO Program allows high school students to attend a post secondary institution either full or part-time at no cost to the student. PSEO has a dual purpose:

1. To promote rigorous educational pursuits
2. To provide a variety of options for students

Any 10th, 11th, or 12th grade student may enroll at an eligible institution if they meet criteria. Students and parents interested in this program or wanting additional information must attend an informational meeting in February.

### **College in the Schools (CIS)**

The CIS program is a partnership between WHS and select colleges or universities in Minnesota. We currently have relationships with St. Cloud State University, Ridgewater College, and Southwest Minnesota State University. Students must meet minimum requirements in order to participate in the CIS program. Students will earn college credit upon successful completion of the course.

### **Cardinal College**

Listed here are all of the classes that students can take for potential college credit while a WHS student. Please see your counselor for more information.

Click [HERE](#) for more information on how AP test scores translate into college credits.

In order for students to participate in College in the Schools (CIS) program you must meet the minimum requirements set out by the partnering college.

SMSU requires juniors to be in the top 1/3 of their class AND a 3.0 GPA or higher; and seniors need to be in the top 1/2 of their class AND have a GPA of 3.0 or higher.

SCSU and Ridgewater require juniors to be in the top 1/3 of their class; and seniors to be in the top 1/2 of their class.

All students must complete an application process to the college hosting the CIS class they are interested in taking. Counselors will help you through the process in the spring.

Art Studio Department

AP Studio Art: Drawing  
AP Studio Art: 2D Art & Design  
AP Studio Art: 3D Art & Design

English Language Arts Department

AP Language and Composition 11  
AP Literature and Composition 12  
CIS Public Speaking SMSU - 3 credits

Technology Education Department (PLTW courses)

Intro to Engineering Design 1 & 2  
Principles of Engineering 1 & 2  
Civil Engineering and Architecture  
Digital Electronics 1 & 2  
Engineering Design and Development  
Up to 6 credits are available through the PLTW program

Mathematics Department

CIS Precalculus SMSU - 5 credits  
CIS College Algebra SMSU - 3 credits  
AP Calculus

Music Department

AP Music Theory

Science Department

AP Environmental Studies  
CIS Intro to Biology RWC - 4 credits  
CIS General Physics SCSU - 4 credits  
AP Chemistry

Social Studies Department

AP American History  
AP Psychology

We are proud to offer so many opportunities for our students to challenge themselves, get ready for college and earn college credit. Currently our students could potentially leave high school with a total of 25 college credits. Not including any credits earned through the PSEO program or awarded based on AP test scores.

## Graduation Requirements

All students must earn a minimum of 58 credits in grades 9-12 that include credits in the subjects listed below.

Subject area	Credits Required	Description
English Language Arts	8 credits	2 credits at each grade level are required; to include Cardinal Writing and Cardinal Literature
Mathematics	6 credits	At least 2 credits in 9th, 10th, and 11th grade. Geometry, Algebra 2 AND a course with statistics is required.
Science	6 credits	Physical Science 9, Biology, and Chemistry OR Physics must be taken before graduation.
Social Studies	8 credits	2 credits at each grade level are required; including World History, World Geography, and Economics
Health/Physical Education	3 credits	Phy Ed 9, Phy Ed 10, and Health are required
Arts	2 credits	Anytime in 9th - 12th grade
Remaining credits from electives	Minimum of 25 credits	

## Education Beyond High School

Proper academic preparation for post-secondary education is essential for success. The following are general requirements for colleges and the corresponding recommendations from WHS. Please consult the college websites for information regarding specific schools and majors.

### Minnesota Technical and Community Colleges

A high school diploma is required with course work in English, Mathematics, Science, and Social Studies. Tests in mathematics and English are required to determine placement. ACT testing is not required. Students planning a transfer to a four-year college must meet the requirements of the institution.

### Four-Year MN Colleges:

\*These are general recommendations for admission purposes. More classes may be needed for specific majors or scholarship requirements. \*\*The University of Minnesota requires 2 credits of Art and 8 credits of Math, MN State Universities allow art or world cultures or a combination of the two to meet their art requirement.

<b>Four-year MN College Admission Requirements</b>	<b>*WHS Course Recommendations</b>
8 credits English	AP English or any ELA required electives
**6 credits of Math (4 cr of Algebra and 2 cr of Geometry)	Math through Algebra 3 or Accelerated Algebra 3
6 credits of Science (Including 2 credits of Physical Science and Biology)	Physical Science, Biology, CP Chemistry, Physics, AP or Advanced level Sciences
6 credits of Social Science (Including US History and Geography)	American History, World Geography, Social Studies requirements
4 credits of a single World Language	Minimum of Spanish 2 or Chinese 2
**2 credits of Art (Musical or Vocal) or World Cultures	Band, Choir, Orchestra, Studio Art classes, World History

Applicants who do not complete the high school course preparation may sometimes be admitted if they have promising academic records and meet other entrance requirements. Four-year college will generally require that students rank in at least the upper half of their graduating class.

Testing requirements - Admissions tests like the ACT or SAT are a requirement for many four-year colleges. Check specific college requirements - it may vary depending on major. The ACT test is offered in April to all juniors who wish to take the test. Placements tests will be given for nearly all community and technical colleges.

Private college requirements are similar to the requirements listed above. Check information from the individual college or university for specific requirements.

### **Minnesota Comprehensive Assessment Tests**

All Minnesota High School students take the MCA-III tests in Math or Reading in the spring of each year. Minnesota High Schools are graded based on their students' performance on the MCA-III tests.

Students in the 10th grade take the MCA-III Reading test. The Reading test focuses on the 2010 English Language Arts academic standards which include: Speaking, Viewing, Listening, and Media Literacy and Language.

Students take the MCA-III Science test in the year in which they take Biology.

Students in 11th grade take the MCA-III Mathematics test. The Math test focuses on the 2007 Mathematics academic standards which include: Number and Operation, Algebra, Geometry and Measurement, and Data Analysis and Probability.

These tests are administered online each year during a testing window that spans between March and May.

All students are required to take these tests.

### **Graduation Required Testing**

Students graduating from a Minnesota school do not have a testing requirement for graduation at this time.





### **Worlds Best Workforce Legislation**

Minnesota state legislation requires all students, beginning no later than 9th grade, should explore their college and career interests and aspirations to develop a plan for a smooth and successful transition to postsecondary education or employment. Students will develop a portfolio that includes these 7 key elements:

1. Emphasizing a rigorous academic schedule
2. Exploring career and college interests
3. Training in skills for 21st Century employment
4. Attaining community partnerships
5. Providing information on college access
6. Training for postsecondary options
7. Providing experiential learning opportunities.

The portfolios for each student are to be reviewed at least annually by students, their parent or guardians, and the school to ensure that each student's course choices align with their college and career goals. For more information on this legislation please visit the MN Department of Education's webpage.

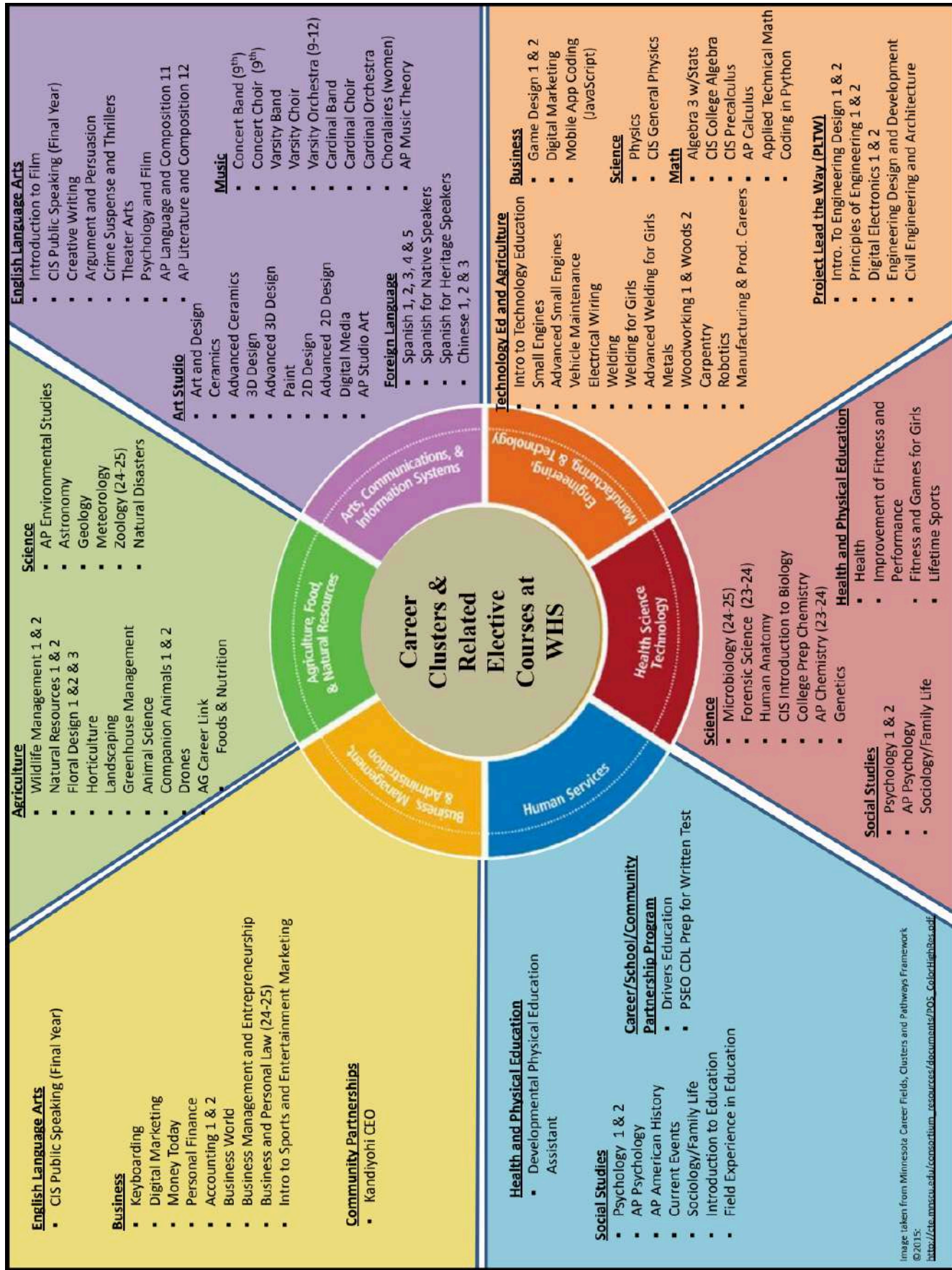


In order to align our district with the Worlds Best Workforce legislation, Willmar Senior High has integrated the Ramp-up to Readiness curriculum from the University of Minnesota's College Readiness Consortium. Ramp-Up to Readiness is a set curriculum that seeks to prepare students for their post-secondary choices. This curriculum is set up to prepare students for college (two-year, four-year, or technical college) in 5 areas:

1. Academic Readiness
2. Admissions Readiness
3. Career Readiness
4. Financial Readiness
5. Personal and Social Readiness

Each student will be given information on how to be well prepared for their future college and career choices.

Each year during Ramp-Up Advisor Meetings, typically in February, students and their parents will meet with their Ramp-Up advisor to discuss their college/career readiness and course choices.



# Ag Education

Agricultural Education prepares students for a successful career and a lifetime of informed choices in the global agriculture, food, and natural resources systems.

## **Exploring Agriculture**

**1 credit**

Course Number: 1010

Grade Level: 9, 10, 11

Prerequisite: None

Description: This course will cover everything from where your food comes from to how your clothes are made. Students will explore units on welding, electricity, car maintenance, and small engines. Outdoor gardens and our department pets will be used to understand plant and animal sciences. Students will use the school's wildlife management area to explore environmental concerns. Exploring agriculture is a very hands-on project based class that offers students the opportunity to think outside the box and take ownership of their own learning through agriculture.

## **FOOD SYSTEMS PATHWAY**

### **Foods and Nutrition**

**1 credit**

Course Number: 1150

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: Do your culinary skills end with box macaroni and cheese or popping a pop tart into the toaster? Learn to cook without a box. You'll learn the essentials of basic cooking skills, the use of kitchen utensils and equipment, measurements, abbreviations and recipe terms, as you prepare delicious foods including cookies, pizza, fettuccine, and more.

## **NATURAL RESOURCES PATHWAY**

### **Wildlife Management 1**

**1 credit**

Course Number: 1040

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: This course studies wildlife management principles, lakes, fish, waterfowl, upland game birds and mammals. Units will cover deer, elk, moose, wolves, bears, and the history of Large Mammals in Minnesota.

### **Wildlife Management 2**

**1 credit**

Course Number: 1050

Grade Level: 10, 11, 12

Prerequisite: Wildlife Management 1

Description: Students will learn habitat management, hunter ethics, survival and navigation techniques, mammals, waterfowl, upland game birds and includes materials from the Minnesota Hunter Education Program. Students will also learn how to build their own summer or ice fishing rod.

### **Natural Resources 1**

**1 credit**

Course Number: 1060

Grade Level: 10, 11, 12

Prerequisite: None

Description: This course is a study of our natural resources and the management of them. It includes units on soils, water, forests, and fish and wildlife resources. Students will explore where their food

comes from and how current farming practices affect our natural resources.

### **Natural Resources 2**

**1 credit**

Course Number: 1065

Grade Level: 10, 11, 12

Prerequisite: Natural Resources 1

Description: This class explores environmental science and ecology. Students will design and create an ecosystem model including descriptions of land types, forests, water and wildlife species. Students will also learn how to build their own summer or ice fishing rod.

## **PLANT PATHWAY**

### **Floral Design 1**

**1 credit**

Course Number: 1070

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: Students will work with fresh and artificial flowers. The class will cover basic floral design construction, flower identification, principles of design, pricing, and project work. Students get to make and take creative and fun fresh flower designs home! **This class will fulfill one Art credit.**

### **Floral Design 2**

**1 credit**

Course Number: 1080

Grade Level: 10, 11, 12

Prerequisite: Floral Design 1

Description: Students will create and explore more complex floral design construction, building on concepts learned in Floral 1 including arrangements to be used in weddings and other events. Students will work with fresh and artificial flowers. Students get to make and take creative and fun fresh flower designs home! **This class will fulfill one Art credit.**

### **Floral Design 3**

**1 credit**

Course Number: 1090

Grade Level: 11, 12

Prerequisite: Floral Design 2

Description: Students will plan and design arrangements for a school-based floral shop including: a customer subscription program, customer orders, and prom. This class will give students hands-on experience in running their own floral shop. This is a term 4 class only!

### **Horticulture**

**1 credit**

Course Number: 1105

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: This class is about growing plants! Plants will be grown using various propagation techniques while outdoor gardens and growing space will be used. Students will gain hands-on experience and learn about plant anatomy, processes, and basic greenhouse, vegetable, and houseplant production.

### **Greenhouse Management**

**1 credit**

Course Number: 1115

Grade Level: 10, 11, 12

Prerequisite: Horticulture or Instructor approval

Description: Students will work in the school greenhouse and coordinate a spring plant sale. This class will give you hands-on experience in starting seeds, transplanting plugs, caring for annuals, perennials and houseplants all while running a greenhouse business. This is a term 4 class only!

**Landscaping****1 credit**

Course Number: 1110

Grade Level: 10, 11, 12

Prerequisite: None (Horticulture is recommended)

Description: Students will learn how to design, install and maintain beautiful and functional landscape designs! During this hands-on class, students will work at various project/job sites as well as creating and designing their own personal landscape plans. Basic plant concepts and identification will be covered.

**ANIMAL PATHWAY****Animal Science****1 credit**

Course Number: 1125

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: This course will cover concepts related to veterinary science. Students will conduct labs that simulate practices seen in a veterinary clinic. Other topics covered will be related to large or production animals including: cattle, pigs, sheep, goats, poultry, and horses.

**Companion Animals 1****1 credit**

Course Number: 1120

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: This course will investigate scientific concepts in relation to the care of companion animals. Students will study nutrition, safety, health, training, anatomy and general care of companion animals. The course will focus on dogs, cats, rabbits, birds, reptiles, guinea pigs, rodents, and fish. This class is great for any student who owns a pet or is interested in a career with companion animals.

**Companion Animals 2****1 credit**

Course Number: 1121

Grade Level: 9, 10, 11, 12

Prerequisite: Companion Animals 1 or Animal Science

Description: This course will explore more in depth career opportunities in the animal science area. Students will study animal behavior, nutrition, anatomy, and diseases with a focus on veterinary procedures and terminology that could be used on the farm or at a vet clinic. This class will cover topics especially related to a student that wants to have a career with companion or livestock animals!

**AG MECHANICS PATHWAY****Small Engines****1 credit**

Course Number: 1180

Grade Level: 10, 11, 12

Prerequisite: None

Description: Students will demonstrate small engine operation, care, repair and maintenance.

**Advanced Small Engines****1 credit**

Course Number: 1190

Grade Level: 10, 11, 12

Prerequisite: Small Engines

Description: Students will work on small engine projects and related equipment.

**Carpentry** **1 credit**

Course Number: 1220

Grade Level: 10, 11, 12

Prerequisite: None

Description: Students will develop basic carpentry skills including tool selection and usage, safety, building layout and construction skills, and concrete/masonry skills.

**Electrical Wiring** **1 credit**

Course Number: 1240

Grade Level: 10, 11, 12

Prerequisite: None

Description: Are you looking into the Electrical Wiring career path or how to fix and maintain electrical circuits in your home or apartment? Students will learn the basics of AC and DC circuits, while wiring single, three-way and four-way switches, outlets, and light receptacles. Students will also wire agricultural electrical motors and controls. This class would be a great start to a career as an Electrician!

**Drones** **1 credit**

Course Number: 1270

Grade Level: 10, 11, 12

Prerequisite: None

Description: This hands-on course will explore using DRONES and GPS technology. Students will understand how to get their remote pilot certificate to operate drones. Students will develop real life drone data by utilizing school wildlife management areas and school crop fields to explore, collect and map data, and fly drones. This course is designed to utilize technology to develop 21st century work skills.

**Welding** **1 credit**

Course Number: 1250

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: This course is an introduction to various welding processes. Students will produce a number of welds using Shielded Metal Arc, Gas Metal Arc, and TIG welding equipment and procedures.

**Welding for Girls** **1 credit**

Course Number: 1255

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: Anyone ever told you, you weld like a girl? Take that as a compliment! This course is designed to help young women improve their skills in various welding processes. Girls will produce a number of welds using Wire feed, Arc/Stick and TIG welding equipment and procedures. Discover how fun welding can be! No previous experience is necessary.

**Advanced Welding for Girls** **1 credit**

Course Number: 1256

Grade Level: 10, 11, 12

Prerequisite: Welding for Girls, or Welding

Description: This advanced course is designed to help young women to continue to improve their skills in various welding processes. Students will produce a number of complex welds using Wire feed, Arc/Stick, and Tig welding equipment and procedures. Discover how fun welding can be!

**Vehicle Maintenance** **1 credit**

Course Number: 1260

Grade Level: 10, 11, 12

Prerequisite: None

Description: This course is an introduction to cars and how owners can take the best care of them. Most systems in the vehicle are studied and worked on in the shop. It is highly recommended that students have access to a vehicle to take this class.

### **Home Maintenance**

**1 credit**

Course number: 1275

Grade Level 9, 10, 11, 12

Prerequisite: None

Description: Excited to live in your own home or rent your first apartment? This course will cover topics on home maintenance, repair, and remodeling. Topics will include basic framing/construction, fixing/installing windows and doors, installing/repairing sheetrock, concrete, basic home electricity and plumbing, as well as painting and texturing walls. Students will also learn general car and small engine maintenance skills.

### **Ag Career Link**

**1 credit**

Course number: 7245

Grade Level 11,12

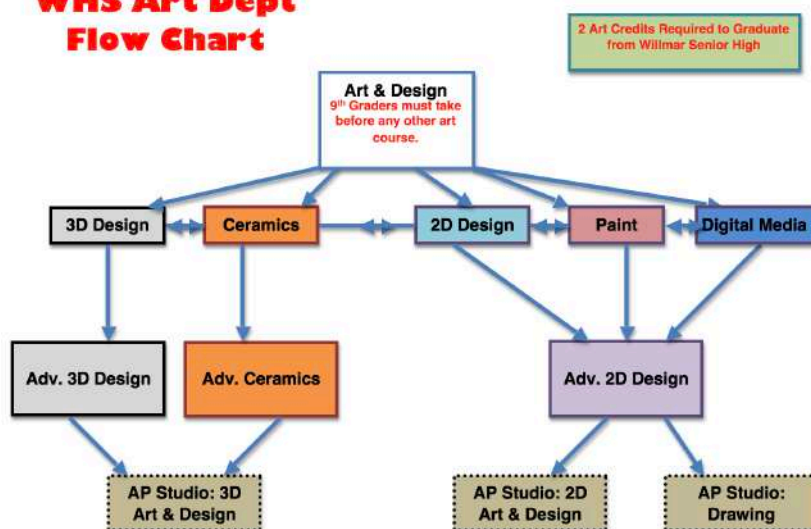
Prerequisite: Juniors 3.0/Seniors 2.5 GPA

Description: Want to earn more money and explore the great career opportunities around Willmar? This course will help students make future career employment decisions by getting a hands-on approach to learning through touring and walking in the shoes of the many employees of Jennie-O Turkey Store, Life Science Innovations, Arnolds, and Riverview Dairy. The other remaining days students will tour local agricultural businesses such as Farm Rite Equipment, South 71 Vet Clinic, Mills Auto, Nelson International, Anez Consulting, Vaxxinova, Nova-Tech and Carlson Dairy among others. Students will get a first hand experience and understanding of all the great opportunities to earn more cash and work at local Willmar businesses.



# Art Studio

## WHS Art Dept Flow Chart



### Art and Design

**1 credit**

Course Number: 1500

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: This class introduces the student to the elements of art through methods and materials of art processes. For example, students will create drawings, paintings, clay creations & a digital portfolio. This class is recommended as a student's FIRST ART EXPERIENCE.

### Ceramics

**1 credit**

Course Number: 1520

Grade Level: 9, 10, 11, 12

Prerequisite: Art and Design for Grade 9-None for grades 10-12

Description: Students will learn how ceramic art is structured for a variety of functions as well as create art works in the areas of wheel thrown and hand built clay work.

### 2D Design

**1 credit**

Course Number: 1570

Grade Level: 9, 10, 11, 12

Prerequisite: Art and Design for grade 9-None for grades 10-12

Description: Students will create a variety of artwork developing their drawing and composition skills with materials from pencil, collage, printmaking and other mediums.

### Paint

**1 credit**

Course Number: 1550

Grade Level: 9, 10, 11, 12

Prerequisite: Students will use a variety of paints (acrylic, watercolor, tempura, etc.) to create a range of art works. Personalized subject matter will be emphasized with influences from traditional to 20th Century painting styles.



**Digital Media****1 credit**

Course Number: 1560

Grade Level: 10, 11, 12

Prerequisite: None

Description: This class will expose students to different types of digital art. Students will explore computer technology to produce artistic images. Students will learn about Photoshop, image manipulation, graphic design basics, GIFS, 3D rendering, and other computer-based art forms.

**3D Design****1 credit**

Course Number: 1540

Grade Level: 9, 10, 11, 12

Prerequisite: Art and Design for grade 9- None for grades 10, 11, 12

Description: Students will learn how 3-Dimensional art works are structured for a variety of functions and concepts. Materials range from clay, plaster, paper mache, found objects and glass.

**Advanced Ceramics****1 credit**

Course Number: 1593

Grade Level: 10, 11, 12

Prerequisite: Ceramics

Description: This class will offer advanced individual experimentation in 3-Dimensional techniques and processes with emphasis on wheel throwing while still utilizing hand-building methods. High quality and craftsmanship is expected from students interested in creating a variety of artworks for portfolio and display.

**Advanced 2D Design****1 credit**

Course Number: 1545

Grade Level: 10, 11, 12

Prerequisite: 2 credits of senior high art to include at least 1 credit of either 2D Design or Paint.

Both are encouraged, but not required.

Description: This class implements skill and creativity into 2-Dimensional techniques and processes. High quality and craftsmanship is expected from students to create a variety of artworks for portfolio and display.

**Advanced 3D Design****1 credit**

Course Number: 1555

Grade Level: 10, 11, 12

Prerequisite: 3D Design(Sculpture), Ceramics recommended but not required

Description: This class will continue to explore 3D techniques that range in more complex methods and materials, ranging from wood, plaster, clay, glass etc. High quality work and portfolio development creating a variety of artworks.

**ADVANCED PLACEMENT STUDIO ART OPPORTUNITIES****AP Studio Art-Drawing****2 credits**

Course Number 1575-1576

Grade Level: 11,12

Prerequisite: 2D Design and Advanced 2D Design, Recommend Paint as well

Description: This class is for students interested in preparing an art portfolio using drawing, painting, printmaking, etc. techniques/material. Mark making/manipulation is a focus in this portfolio. Multiple works of high quality are required. Completed works **may be** eligible for submission to the College Board as an AP Drawing portfolio. This class is offered in the Spring Semester only. 12-18 high quality artworks expected to be completed during portfolio development.

**AP Studio: 2D Art and Design                      2 credits**

Course Number:            1585-1586

Grade Level:                11,12

Prerequisite:                2D Design, Paint and Adv 2D Design

Description:                This class is for students interested in preparing an art portfolio using a 2D surface and medium of choice. The focus of this class is purposeful decision making about using the elements and principles of art to create strong artistic designs on a 2D surface. Processes may include graphic design, photography, collage, fashion design, illustration, painting, etc. Multiple works at high quality art are required. Completed works **may be** eligible for submission to the College Board as an AP 2D Design Portfolio. This class is offered in the Spring Semester only. 12-18 high quality artworks expected to be completed during portfolio development.

**AP Studio: 3-D Art and Design                      2 credits**

Course Number:            1597-1598

Grade Level:                11, 12

Prerequisite:                Ceramics, Advanced Ceramics, 3D Design(previously Sculpture), Advanced 3D Design(previously Adv. Sculpture)

Description:                This class is for students interested in preparing an art portfolio using a 3D medium. The focus of this class is purposeful decision making about using the elements and principles (dealing with depth and space design) of art to create strong artistic 3D designs. Multiple works of high quality art are required. Completed works **may be** eligible for submission to the College Board as an AP 3D Portfolio. This class is offered in the Spring Semester only. 12-18 high quality artworks expected to be completed during portfolio development.

# Business

Are you going to work or have a job someday?

You need to take Business Classes!

Business Education introduces students to fundamental business concepts and how they apply to personal and business use. Students will gain general business knowledge, the application of computers/technology and obtain a valuable foundation that will help them succeed in the real world. Approximately twenty-five percent of Willmar graduates who attend college major in Business and approximately sixty percent end up in the business world. Recommended business classes can be found in the table below.

Beginning	Intermediate	Advanced
Keyboarding (9-12)		Game Design (10-12)
Digital Marketing (9-12)	Personal Finance (11-12)	Business Management and Entrepreneurship (10-12)
Business World (9-10)	Intro to Sports and Entertainment Marketing (9-11)	Business and Personal Law (10-12)
Money Today (9-10)	Accounting 1 (10-12)	Accounting 2 (10-12)
Game Design 1 (9-12)	Mobile App Coding (Javascript) (9-12)	Social Media Marketing (10-12)

## **Keyboarding**

**1 credit**

Course Number: 2000

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: This course is designed to improve keyboarding skills for personal, school and employment use. The course includes review of proper technique, practice for speed and accuracy, learning how to format business letters, memos, reports, tables and more. This course may be taken as Pass/Fail by department approval. This course is recommended as a foundation for all other computer classes.

## **Digital Marketing**

**1 credit**

Course Number: 2031

Grade Level: 9, 10, 11, 12

Prerequisite: None (keyboarding recommended)

Description: Students will create digital content and projects for personal and business use using several different applications. They will learn the importance of using these applications in the marketing world. Students will study the following: Microsoft: Word, Excel, PowerPoint and Canva.

## **Game Design 1**

**1 credit**

Course Number: 2191

Grade Level: 9, 10, 11, 12

Prerequisite: Algebra 1A

Description: Game Design is growing in popularity every day. Learn the basics through a program called GAME:IT. Students will learn simple programming to actually write code and develop

original computer games. Concepts covered are: math and physics concepts used in game development, how the engineering cycle is used to design games, the components of a good game, color theory in game design, how to create sprites and animation, and so much more. Must have a good understanding of basic computer skills.

**Game Design 2** **1 credit**

Course Number: 2192

Grade Level: 10, 11, 12

Prerequisite: Game Design 1

Description: This intermediate course is to be taken after Game Design 1. Students build three guided games that build on some of the functionality required in their own unique team game. Teams are created and required to form an idea, come up with a marketing plan, outline various roles, develop a proposal, and provide weekly status reports. When the course is complete students will have their own game development portfolio and an original computer game. Can repeat for credit.

**Mobile App Coding (Javascript)** **1 credit**

Course Number: 2040

Grade Level: 9, 10, 11, 12

Prerequisite: Algebra 1A

Description: Want to create your own game for your mobile device? This is an introductory course that teaches application design and programming using Java. The “meat” of the course is spent learning basic Java programming and then on to working with App Lab to start simulating real working apps. By the end of the course students are able to successfully download real working mobile applications.

**Money Today** **1 credit**

Course Number: 2010

Grade Level: 9, 10

Prerequisite: None

Description: Do you know how to spend your money wisely? Do you know how to save for your future? Money Today is a course that everyone needs. It is designed to give a solid base for those students considering further study in business, as well as offering useful and practical information about everyday living to those students not intending further business studies. Areas covered are: personal money management & budgeting; savings & investing, money & banking; credit and debit cards; insurance; and simple business math.

**Business World** **1 credit**

Course Number: 2200

Grade Level: 9, 10

Prerequisite: None

Description: This course is an introduction to business. Students will experience managing a business through a business simulation. Each student will play the role of a manager to run a business. A variety of business concepts and activities will be discussed and put into practice during the simulation. Some topics include: Recruiting & Hiring, Employee Supervision, Pricing & Sales, Operations Management, Accounting, Advertising, Risk Management, and Forms of Ownership.

**Personal Finance** **1 credit**

Course Number: 2015

Grade Level: 11, 12

Prerequisite: None

Description: Who can benefit from having a better understanding of money and finance? Everyone can! This course is designed to help junior and senior students make informed personal financial decisions leading to financial independence. Some real world topics covered will include banking and

budgeting, income and taxes, credit, investments, and insurance. Business math concepts will be used to evaluate and understand real world topics.

**Business Management and Entrepreneurship      1 credit**

Course Number: 2106

Grade Level: 10, 11, 12

Prerequisite: None

Description: Have you ever wanted to be your own boss and run your own business? This class goes over the basics of business management and entrepreneurship. You will learn fundamentals of how to create and run a small business which will focus on the preparation of your very own business plan.

**Business and Personal Law      1 credit**

This class will be offered every other year. It will be available during the 2024-2025 school year.

Course Number: 2110

Grade Level: 10, 11, 12

Prerequisite: None

Description: This course is designed to address statutes and regulations affecting businesses, families, and individuals. Some topics include: basics of the law, contract law, consumer law, and property law. This course is useful for all students as they assume roles in a community as a citizen, worker, and consumer.

**Intro to Sports and Entertainment Marketing      1 credit**

Course Number: 2160

Grade Level: 9, 10, 11

Prerequisite: None

Description: Marketing is the tool that has allowed the United States economy to be one of the most successful in the world. Sports and entertainment are important parts of our modern economy. Fans and companies spend billions of dollars each year on sports. Entertainment is one of the largest exports from the U.S. to the rest of the world. This class will take you on a step-by-step journey through the world of marketing. You will learn the basic functions of marketing and how those functions are applied to sports and entertainment. Students will go through a final simulation on the computer where they will need to manage and market their own football team.

**Social Media Marketing      1 credit**

Course Number: 2080

Grade Level: 10, 11, 12

Prerequisite: None

Description: Learn the in's and out's on the hot business topic: Social Media Marketing! Concepts will cover: social media for business, paid social media advertising, analytics, audits, and campaign planning. Plus digital marketing! Students will complete a practical, hands-on learning simulation branding their own company all while developing and building their own personal brand. Students will complete a practical, hand-on learning simulation branding their own company all while developing and building their own personal brand. Snapchat, Twitter, Facebook, Google, YouTube, TikTok, and Instagram are used

**Accounting 1      1 credit**

Course Number: 2041

Grade Level: 10, 11, 12

Prerequisite: Algebra 1A

Description: This course will introduce accounting concepts and practices. Students will work with journals, ledgers, and prepare financial statements manually and will have hands-on experience completing problems on the computer using Aplia.com. Students will work with bank reconciliation statements and various other areas of banking and checking accounts. The course will provide a foundation

for further study in business and/or accounting in college or vocational school. IT IS STRONGLY RECOMMENDED THAT STUDENTS REGISTERING FOR THIS COURSE COMPLETE THE SEQUENCE BY TAKING ACCOUNTING 2 IMMEDIATELY FOLLOWING ACCOUNTING 1.

**Accounting 2**

**1 credit**

Course Number: 2042

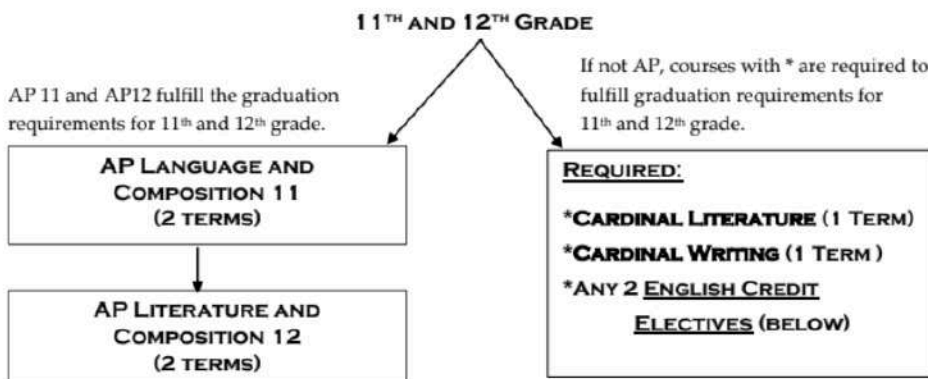
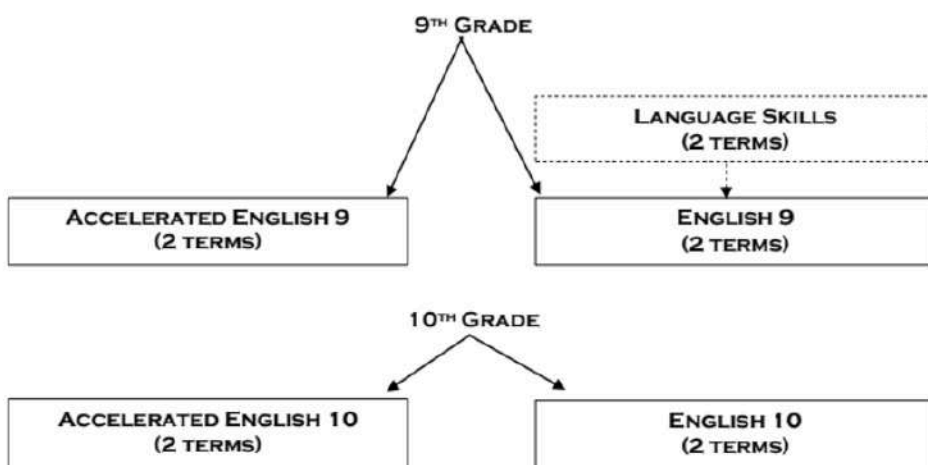
Grade Level: 10, 11, 12

Prerequisite: Accounting 1

Description: This course is especially recommended for students interested in a career in accounting, administration, management, finance, or any business career. The course builds upon the financial accounting concepts and practices developed on Accounting 1. The areas covered are accounting control systems, professional accounts, departmentalized accounting, and online accounting using Aplia.com. They will also work with completing a payroll for a company and work with taxes withheld. Students will complete a simulation for a small company using all the skills learned. *With a B or better earned in both Accounting I and Accounting II students can receive articulated college credits with many colleges.*

# English Language Arts

In the English Language Arts courses, reading, writing, speaking and listening are integrated and taught as interactive processes. The aim is to help students become competent and proficient language users. Students actively learn about language (how to listen, speak, read, and write) and about how language and literature are central in their lives.



All students in 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade may register for electives, but preference will be given to students taking the class as a graduation requirement.

## ENGLISH CREDIT ELECTIVES: (EACH CLASS IS 1 TERM)

- Adulting 101
- Argument and Persuasion
- CIS Speech
- Creative Writing
- Crime, Suspense, and Thrillers
- Myths Legends and Superheroes
- Survival of the Lit-test

## NON-ENGLISH CREDIT ELECTIVES: (EACH CLASS IS 1 TERM)

- Intro to Film
- Language Skills
- Psych and Film
- Theater arts

**Co-Taught English 9****2 credits ELA; 2 credits Elective**

Course Number: 2507, 2508, 2509, 2510

Grade Level: 9, 10, 11, 12

Prerequisite: Departmental approval is required

Description: This class integrates reading, writing, listening, and speaking activities to prepare students for core communications classes and helps students build the English skills needed to succeed in high school level classes

**Language Skills****2 credits**

Course Number: 2503 - 2504

Grade Level: 9, 10

Prerequisite: Failure of two or more terms of English 8 and standardized test scores OR completion of Advanced EL.

Description: This course supplements the English 9 curriculum by providing additional reading and writing skills necessary for success in other classes. Students can earn two elective credits. Students sign up for this course in addition to English 9.

**English 9****2 credits**

Course Number: 2501 - 2502

Grade Level: 9

Prerequisite: English 8

Description: This required course includes reading (novels, short stories, and drama), writing, speaking, vocabulary, grammar, research, and critical thinking skills.

**Accelerated English 9****2 credits**

Course Number: 2505 - 2506

Grade Level: 9

Prerequisite: Must be at the "Meet" or "Exceeds" level on the 8th grade MCA Reading Test.

Description: This course follows the English 9 curriculum at a more rapid pace and in greater depth. This class is recommended for students who have earned a B+ average or better in previous English classes and have developed strong work habits. It is strongly recommended that students intending to take Advanced Placement courses in subsequent years register for this course.

**English 10****2 credits**

Course Number: 2511 - 2512

Grade Level: 10

Prerequisite: English 9

Description: This required course includes activities that help students develop research, reading, public speaking, writing, grammar, and vocabulary skills. They will prepare to take the MCA III Reading test by reading both fiction and non-fiction texts.

**Accelerated English 10****2 credits**

Course Number: 2513 - 2514

Grade Level: 10

Prerequisite: English 9

Description: This course follows the English 10 curriculum at a more rapid pace and in greater depth. Students are required to read texts that demand careful analysis, demonstrate advanced composition skills, and present more sophisticated speaking projects. Students should expect challenging materials and substantial homework. It is strongly recommended that students intending to take Advanced Placement courses in subsequent years register for this course.



## 11th and 12th GRADE ENGLISH COURSES

Students in 11th and 12th grade who are *not* taking Advanced Placement courses are required to take a minimum of 2 credits each year of English.

\*Cardinal Writing and Cardinal Literature are REQUIRED for graduation. The other two credits will come from approved English Elective courses

### Cardinal Writing

**1 credit**

Course Number 2625

Grade level: 11, 12

Prerequisite: English 10, Accelerated English 10

Description: Students not taking English AP courses are required to take this standards based one-term writing class in either their junior or senior year. This course will have three areas of writing focus: Persuasion, Narration, and Analysis. Students will be challenged to write in a variety of genres as well as review the writing process. The personal portfolio assignment will be a requirement of this course.

### Cardinal Literature

**1 credit**

Course Number 2626

Grade level: 11, 12

Prerequisite: English 10, Accelerated English 10

Description: Students not taking English AP courses are required to take this standards-based one-term literature class in either their junior or senior year. In this course, students will read a variety of literature: novels, short stories, informational text, and drama. The emphasis will be on textual evidence and literary analysis in order to persuade an audience of an interpretation of a text.

## GRADUATION APPROVED ENGLISH COURSES

These courses **will** meet the English requirement for graduation and are meant to meet the needs of students who want to study specific skills beyond the regular course offerings. Students will need two to graduate but can take more as desired.

### Creative Writing

**1 credit**

Course Number: 2745

Grade Level: 10,11,12

Prerequisite: English 10/Acc English 10

Description: "A word after a word after a word is power." Margaret Atwood. In this elective course, students will experiment with many different creative writing skills. Students will be challenged to explore a variety of poetry and prose styles through drama, children's books, poetry, short stories, and memoirs. This class is intended for beginning and experienced writers who have a desire to read, write, and experiment with language and story. Students will write daily!

### Argumentation and Persuasion

**1 credit**

Course Number: 2711

Grade Level: 10,11,12

Prerequisite: English 10/Acc English 10

Description: In this elective course, students will learn about the elements of persuasion and how to construct solid written and verbal arguments based on reason and logic. Students will explore persuasion in advertising, political speech, media, and more. Public speaking is required and students will give persuasive speeches and participate in debates.

**Myths, Legends, and Superheroes 1 credit**

Course Number: 2720

Grade Level: 10,11,12

Prerequisite: English 10/Acc English 10

Description: What does Superman have to do with ancient mythology? In this elective course, students will explore the myths and legends of cultures around the world, including our modern superheroes. Students will read short stories, listen to podcasts, and view artistic representations of myths and legends. Using what they have learned, students will write and create their own stories and characters.

**Adulthood 101 1 credit**

Course Number: 2715

Grade Level: 10,11,12

Prerequisite: English 10/Acc English 10

Description: Growing up is equal parts privilege and responsibility. This elective course will help ease the transition to responsibility by teaching students valuable communication skills such as how to get a job, how to find housing, and how to figure out whether to lease or buy a vehicle. Students will learn how to read and evaluate technical language in leases, health care plans, and car insurance. This course will help students be better prepared to make important adulthood decisions!

**Crime, Suspense, and Thrillers 1 credit**

Course Number: 2730

Grade Level: 10,11,12

Prerequisite: English 10/Acc English 10

Description: *NCIS*, *Law and Order: SVU*, *CSI*, *Criminal Minds*. . . mysteries. . . adrenaline surges. . . If these sound interesting, then Crime, Suspense, and Thrillers is an elective course for you! Students will learn more about the elements, story types, and characters that comprise the mystery-thriller genre, and they will also “take a stab” at writing their own!

**Survival of the Fittest! 1 credit**

Course Number: 2735

Grade Level: 10,11,12

Prerequisite: English 10/Acc English 10

Description: In this elective course, students will read stories of survival and adventure, both fiction and non-fiction. Students will practice real-world survival skills, research survival in various types of situations and write about both!

**CIS Public Speaking SMSU 1 WHS credit****COMM110 Essentials of Public Speaking and Listening 3 SMSU credits**

Course Number: 2710

Grade Level: 11,12

Prerequisite: English 10, meets SMSU’s CIS requirements

Description: This course teaches the use of verbal and nonverbal communication to organize and deliver effective oral presentations. Additional emphasis is placed on identifying and overcoming listening barriers.

**ADVANCED PLACEMENT COURSES****AP Language & Composition 11 2 credits**

Course Number: 2613 - 2614

Grade Level: 11

Prerequisite: A “B” or higher (by 3rd term) in Acc. English 10/English 10 or teacher approval

Description: This course prepares students to take the Advanced Placement Exam in Language and Composition and possibly earn college credits for successful completion of the test. It focuses on the

reading and analysis of non-fiction prose from various fields and periods, primarily in American literature. Students will study rhetorical terms, extensive vocabulary, and grammar. Since this is a college-level course, students should expect challenging materials and activities.

### **AP Literature & Composition 12                      2 credits**

Course Number:            2623 - 2624

Grade Level:                12

Prerequisite:                A "B" or higher (by 3rd term) in AP Language & Composition or departmental approval.

Description:                This course prepares students to take the Advanced Placement Exam in Literature and Composition and possibly earn college credits with successful completion of the test. Students will engage several works of literature at the literal, connotative, symbolic and philosophical levels of meaning, investigate similarities among works of literature, examine texts from multiple perspectives and formulate and support a personal position both in written and oral performances. As a college-level course, students should expect extensive reading, research, and writing.

### **ENGLISH LANGUAGE ARTS ELECTIVES**

These courses do ***not*** fulfill the English requirement for graduation and are meant to meet the needs of students who want to study specific skills beyond the regular course offerings.

#### **Introduction to Film                                      1 credit**

Course Number:            2725

Grade Level:                11, 12

Prerequisite:                None

Description:                The students will analyze and interpret films by studying basic film techniques and language as well as film criticism. Students will analyze movies with a more critical eye and a deeper understanding of the storytelling process.

#### **Psychology and Film                                      1 credit**

Course Number:            2750

Grade Level:                11, 12

Prerequisite:                Psychology 1 and teacher permission

Description:                Students will study and learn the process of approaching film from many different directions. Through the use of movies, critical commentaries and empirical studies, students will become familiar with the basic orientation of different perspectives. To accomplish the goals of this course, an interdisciplinary approach will be used with Social Studies and English departments. **This class does not count toward Social Studies or required English credits.** Students who have taken Psychology through PSEO *must* talk to Mr. Hovland prior to taking this course.

#### **Theater Arts    1 credit**

Course Number:            2740

Grade Level:                10, 11, 12

Prerequisite:                None

Description:                This class introduces and explores theater from page to stage as a live performing art. Students will develop their interpretation and improvisation skills while exploring a variety of genres and styles as they perform monologues, due scenes, and large group scenes. Students will also learn about the roles of theater artists such as directors, designers, playwrights, and actors.

# English Learners

## **EL Entering Communication**

**4 credits**

Course Number: 2875- 2876- 2877- 2878  
Grade Level: 9, 10, 11, 12  
Prerequisite: Departmental approval is required  
Description: In this class the students will learn basic English communication skills, introductory literacy skills and foundational academic vocabulary.

## **EL Cultures 1**

**4 credits**

Course Number: 2935- 2936- 2937- 2938  
Grade Level: 9, 10, 11, 12  
Prerequisite: Departmental approval is required  
Description: In this class students will learn basic cultural vocabulary about the social and scientific environment in which they live.

## **EL Science Concepts 1**

**4 credits**

Course Number: 2865- 2866- 2867- 2868  
Grade Level: 9, 10, 11, 12  
Prerequisite: Departmental approval is required  
Description: Students will learn basic science concepts and vocabulary.

## **EL Emerging Communication 2.0**

**4 credits**

Course Number: 2885- 2886- 2887- 2888  
Grade Level: 9, 10, 11, 12  
Prerequisite: Departmental approval is required  
Description: In EL Emerging Communication students will work on improving their English language proficiency skills in listening, speaking, reading and writing.

## **EL Cultures 2.0**

**2 credits**

Course Number: 2807- 2808  
Grade Level: 9, 10, 11, 12  
Prerequisite: Departmental approval is required  
Description: In this class students will learn about American History beginning with the first settlers in America. Oral language activities along with writing opportunities will help students learn English literacy skills through content instruction.

## **EL Math B**

**2 credits**

Course Number: 2845- 2846  
Grade Level: 9, 10, 11, 12  
Prerequisite: Departmental approval is required  
Description: Students in this class will learn math skills necessary to participate successfully in Problem Solving Algebra Prep.

## **EL Science Concepts 2.0**

**2 credits**

Course Number: 2925- 2926- 2927- 2928  
Grade Level: 9, 10, 11, 12  
Prerequisite: Departmental approval is required  
Description: Students in this class will learn science concepts and academic vocabulary. This class will help prepare EL students to be successful in core science classes.

**EL Emerging Communications 2.5                      4 credits**

Course Number:            2895- 2896- 2897- 2898

Grade Level:                9, 10, 11, 12

Prerequisite:                Departmental approval is required

Description                 In EL Emerging Communications 2.5 students will work on improving their English language proficiency skills in listening, speaking, reading and writing, building on skills learned in EL Emerging Communications 2.0

**EL Science Concepts 2.5                                      2 credits**

Course Number:            2930- 2931

Grade Level:                9, 10, 11, 12

Prerequisite:                Departmental approval is required

Description:                Students in this class will learn science concepts and academic vocabulary, building on skills learned in EL Science 2.0. This class will help prepare EL students to be successful in core science classes.

**Co-Taught American History 1/Government                      2 credits Social Studies; 2 credits elective**

Course Number:            6011- 6012- 6013- 6014

Grade Level:                9, 10, 11, 12

Prerequisite:                Departmental approval is required

Description:                This course is designed to give students an overview of American Historical events through the 1900s with an additional focus on English Language Development. The content includes the study of a broad range of individuals and groups, including renowned historical figures and ordinary “everyday” people. It also examines how the foundations of our government and how varying experiences, values, and goals of the American people have merged to shape our character and way of life. Students will receive 2 Social Studies core credits and 2 elective credits for this course.

**Co-Taught English 9    2 credits ELA; 2 credits Elective**

Course Number:            2507- 2508- 2509- 2510

Grade Level:                9, 10, 11, 12

Prerequisite:                Departmental approval is required

Description:                This class integrates reading, writing, listening, and speaking activities to prepare students for core communications classes and helps students build the English skills needed to succeed in high school level classes.

**ARCH    1 credit**

Course Number:            2881

Grade Level:                9, 10, 11, 12

Prerequisite:                Departmental approval is required

Description:                ACCESS - Recovery - Check in - Homework: This class provides extra support for EL students in mainstream classes. Students will work on skills in the areas of reading, writing, speaking, and listening. They will have the opportunity to do credit recovery and work on homework for other classes with the support of an EL teacher. This course fulfills the EL service requirement and students receive elective EL credit. The course may be taken multiple times with counselor and department approval.

**ELD 3-4    2 credits**

Course Number:            2981-2982

Grade Level:                10, 11, 12

Prerequisite:                Completed English 9, is taking English 10

Description:                This course is to be taken concurrently with English 10. Students will develop their English language Proficiency with a focus on academic language and skills from English 10. Improving academic English reading and writing skills will be a primary objective of the course.

# Health & Physical Education

When students register for 9th grade Physical Education they will be randomly scheduled. Students in 10th grade will register for the group of Physical Education activities they did not have in 9th grade so that during the ninth and tenth grade years both groups of Physical Education activities will be experienced.

<b>Group "A" Activities (Terms 1 &amp; 4)</b>	<b>Group "B" Activities (Terms 2 &amp; 3)</b>
Fitness Activities Tennis Soccer Football Softball Mushball Volleyball Swimming Outdoor Games Others	Bowling Badminton Indoor Games Basketball Ice Skating/Curling Swimming Fitness Activities Dance Volleyball Others

## **Physical Education 9**

**1 credit**

Course Number: 3000

Grade Level: 9

Prerequisite: None

Description: The objective of this course is to teach muscular strength, coordination, skills, leadership and an appreciation of lifetime sports. This appreciation is gained while accessing the fitness center and learning proper use of the fitness center equipment, teaching fundamental skills, playing games and knowledge of rules. You will also learn how to implement an introductory fitness plan. A study on nutrition is also included. A fee for bowling will be assessed.

## **Physical Education 10 (Group A)**

**1 credit**

Course Number: 3010

Grade Level: 10

Prerequisite: Physical Education 9 taken either Term 2 or Term 3

Description: The objective of this course is to assess one's own fitness level, improve muscular strength and endurance, and develop cardiovascular fitness and flexibility through a variety of physical activities and use of the fitness center. An evaluation analysis of one's own fitness level is required.

## **Physical Education 10 (Group B)**

**1 credit**

Course Number: 3015

Grade Level: 10

Prerequisite: Physical Education 9 taken in either Term 1 or Term 4

Description: The objective of this course is to assess one's own fitness level, improve muscular strength and endurance, cardiovascular fitness and flexibility through a variety of physical activities and use of the fitness center. An evaluation analysis of one's own fitness level is required. A fee for bowling will be assessed.

## **Health**

**1 credit**

Course Number: 3020

Grade Level: 9, 10

Prerequisite: None

Description: This course explores ways to maintain and improve physical and mental health. The study of self-esteem, chemical use and abuse, eating disorders, stress, depression and suicide, sexuality and pregnancy, and if time permits, emergency first aid procedures.

### PHYSICAL EDUCATION ELECTIVES

The following classes should develop an interest in and appreciation for activities that have lasting value for lifelong physical fitness. These classes can only be taken two times per year. Students are permitted to take one Physical Education course per term. Students may only repeat Physical Education elective courses two times per year. For example, a student can only take Lifetime Sports two times per year.

#### **Improvement of Fitness and Performance 1 credit**

Course Number: 3045 or 3046 (if repeating for credit)

Grade Level: 10, 11, 12

Prerequisite: PE 9

Description: This class is designed to improve speed, strength, agility and overall fitness. Students will be taught individualized lifts for the weight room and techniques to accomplish improvement in overall fitness and athletic performances. This is a great way to maintain or build strength and support injury prevention. This class may be repeated for credit with departmental approval for the second credit. **This is a great opportunity for athletes to satisfy their in-season lifting per coaches approval.**

#### **Lifetime Sports and Fitness 1 credit**

Course Number: 3055 or 3056 (if repeating for credit)

Grade Level: 11, 12

Prerequisite: Physical Education 9 and 10

Description: This course will emphasize team and individual activities that have value for later in life. Students will acquire an appreciation for various games, have knowledge of rules and practice fundamental skills and strategies. A fitness maintenance program will be incorporated. Fees may be necessary for some activities. This course may be repeated for credit with department approval for the second credit.

#### **Fitness and Games For Girls 1 credit**

Course Number: 3075

Grade Level: 11, 12

Prerequisite: Physical Education 9 and 10

Description: This course will emphasize team and individual activities that have value for later in life, but at a less competitive pace than Lifetime Sports. Students will acquire an appreciation for various games, have knowledge of rules and practice fundamental skills and strategies. A fitness maintenance program will be incorporated.

#### **Adaptive Phy Ed Student Assistant 1 credit**

Course Number: 3109

Grade Level: 11, 12

Prerequisite: Departmental approval is required - application sheet available in counseling office

Description: This course is for students who have an interest in working with our special needs students one-on-one. Assistant participation in the swimming pool is a requirement - no exceptions! Students provide assistance for all planned activities and it is a great opportunity to get to know these students individually. A reaction paper at the end of the term is required. Student attendance will be considered when requesting this course. Students make re-take this course up to 1 time with instructor and administration approval.

# Mathematics

Senior High students are required to complete at least 6 credits of Mathematics: two credits each year for three years. Students must take a course with Statistics before graduation. Students are also required to take either Algebra 2 or Accelerated Algebra 2 before graduation.

The WHS Math Department has suggested four different course sequences or “paths” for students. It is important to choose the path which will best prepare you for your plans when you graduate from high school. These “pathways” are only SUGGESTIONS and may be modified to suit your individual needs and interests. Please read the course descriptions in this book and talk with a math teacher or a counselor if you have any questions about any of the courses.

School Year	<b>Suggested Math Path 1</b> (Accelerated ; 4-year College goal)	<b>Suggested Math Path 2</b> (Accelerated or not ; 4 or 2-yr College goal)	<b>Suggested Math Path 3</b> (4yr, 2yr, or Tech School goal)	<b>Suggested Math Path 4</b> (2yr, Tech School, or workforce goal)
Freshman (9 <sup>th</sup> )	Algebra 1B <i>and/or</i> Probability & Stats	<b>Algebra 1B <i>and/or</i> Probability &amp; Stats</b>	Algebra 1A	Problem Solving
	<b>Accelerated Geometry</b>		<b>Algebra 1B <i>and/or</i> Probability &amp; Stats</b>	Algebra 1A
Sophomore (10 <sup>th</sup> )	<b>Algebra 2 OR Acc. Algebra 2</b>	<b>Geometry</b>	<b>Algebra 2</b>	<b>Algebra 1B <i>and/or</i> Probability &amp; Stats</b>
	<b>Algebra 3 OR Acc. Algebra 3</b>	<b>Algebra 2 OR Acc. Algebra 2</b>		<b>Algebra 2</b>
Junior (11 <sup>th</sup> )	CIS Pre-Calculus	Algebra 3 OR Acc. Algebra 3	<b>Geometry</b>	<b>Geometry</b>
Senior (12 <sup>th</sup> )	AP Calculus	CIS College Algebra	optional *Algebra 3 (if taken, take Geom before Alg2)	optional*Algebra 3 (if taken, take Geom before Alg2)
		CIS Pre-Calculus		

## **Problem Solving Algebra**

**2 credits**

Course Number: 4005 – 4006

Grade Level: 9

Prerequisite: Teacher approval

Description: This class will provide preparation for the regular Algebra 1 curriculum and reinforcement of skills necessary for success in future math classes. Focus topics include: fraction and decimal operations, integers, percents and proportions, variable expressions and equations, solving equations, and inequalities. There is an emphasis on the language of mathematics and how to interpret mathematical language.

## **EL Problem Solving Algebra**

**2 credits**

Course Number: 4007-4008

Grade Level: 9

Prerequisite: Completion of EL Math B or teacher placement

Description: This class will provide preparation for the regular Algebra 1 curriculum and reinforcement of skills necessary for success in future math classes. Focus topics include: fraction and



decimal operations, integers, percents and proportions, variable expressions and equations, solving equations, and inequalities. This course will emphasize the language of Mathematics to support English Language Learners.

### **Algebra 1A** **2 credits**

Course Number: 4011 – 4012

Grade Level: 9, 10, 11, 12

Prerequisite: C's and D's in Linear Algebra, Failed Algebra 1 in 8th grade

Description: Topics to be covered in this course are properties and operations using real numbers, solving of equations including absolute value, solving and graphing inequalities, properties of exponents, linear basics including functions, graphing linear equations, linear applications, systems of equations, systems of inequalities and right triangles.

### **Algebra 1B** **1 credit**

Course Number: 4021

Grade Level: 9, 10

Prerequisite: Successful completion of Algebra 1A or its equivalent; or A's and B's in Linear Algebra in 8th grade with teacher recommendation; or C or lower in Algebra 1 in 8th grade. **This course should be taken the same year as Probability and Statistics.**

Description: This course is a continuation of Algebra 1A. Additional work will be done with exponents and exponential functions, polynomials and factoring, quadratic functions and their applications, modeling data with the appropriate function, and radicals.

### **Probability and Statistics** **1 credit**

Course Number: 4022

Grade Level: 9, 10

Prerequisite: Successful completion of Algebra 1A or its equivalent; or A's and B's in Linear Algebra in 8th grade with teacher recommendation; or C or lower in Algebra 1 in 8th grade. **It is strongly suggested that this course be taken in the same year as Algebra 1B.**

Description: Topics to be covered in this class are: data displays sampling techniques, measures of center, measures of spread, normal distribution, correlation and linear regression, misleading data in the media, basic probability and odds, counting principles, permutations and combinations, compound probability and conditional probability.

### **Accelerated Geometry** **2 credits**

Course Number: 4013 – 4014

Grade Level: 9

Prerequisite: B- or higher in Algebra 1 before grade 9 or Middle School teacher approval or B- or better in Algebra 1B in 9th grade.

Description: This is a course designed for those students who have completed Algebra 1 in Middle School. Topics studied are traditional two-dimensional geometry concepts such as points, lines, planes, and polygons, with emphasis on triangles including basic right triangle trigonometry and quadrilaterals. Logical reasoning: two column, and paragraphs, proofs are used to emphasize geometric concepts. Measurement and applications are integrated throughout. Students learn to value the need to think logically and present ideas in a logical order.

### **Geometry** **2 credits**

Course Number: 4073 – 4074

Grade Level: 10, 11, 12

Prerequisite: Successful completion of Algebra 1B or its equivalent

Description: This course is for students who completed Algebra 1 in grade 9 or later. It covers the same topics as Accelerated Geometry but at a less rigorous level.

**Algebra 2** **2 credits**

Course Number: 4087 - 4088

Grade Level: 9, 10, 11, 112

Prerequisite: Successful completion of Geometry

Description: This course will parallel Accelerated Algebra 2, but will be at a less rigorous level. Working with absolute value, linear, quadratic, polynomial and radical functions will be a large part of the course. Solving systems, and linear programming will also be covered.

**Accelerated Algebra 2** **2 credits**

Course Number: 4083 - 4084

Grade Level: 9, 10, 11, 12

Prerequisite: It is recommended that students should have achieved a grade of B- or higher in Accelerated Geometry or its equivalent.

Description: This course is designed for students who have successfully completed Accelerated Geometry or its equivalent. It is designed for students who are capable of a more rigorous course at an accelerated pace. It covers the material in the regular Algebra 2 course faster and in greater depth. Multiple representations are used in studying many algebraic topics including linear, quadratic square root, and polynomial functions, complex numbers and matrices. Emphasis will be on practical applications and modeling throughout the course of study. Graphing calculators are recommended for this course.

**Algebra 3 w/Statistics** **2 credits**

Course Number: 4093 - 4094

Grade Level: 9,10,11,12

Prerequisite: Successful completion of Algebra 2 or Accelerated Algebra 2

Description: This course is a continuation of Algebra 2. It will parallel Accelerated Algebra 3, but will be at a less rigorous level. Topics will include further work with functions including exponential, logarithmic, rational, quadratic and trigonometric functions. Also included in this course an introduction to conic sections, sequences and series along with probability and statistical topics for state graduation requirements. Solving trigonometric equations, working with trigonometric identities, and using triangles to solve real-life problems. Graphing calculators are recommended for this course.

**Accelerated Algebra 3 w/Statistics** **2 credits**

Course Number: 4103 - 4104

Grade Level: 9, 10, 11, 12

Prerequisite: Successful completion of Accelerated Algebra 2 or its equivalent with department approval

Description: This course covers the same material as the regular Algebra 3 course faster and in greater depth. It is also designed for students capable of working at a more rigorous and accelerated pace. Topics will include further work with functions including exponential, logarithmic, rational, quadratic, and trigonometric functions. Also included in this course an introduction to conic sections, sequences and series along with probability and statistical topics for state graduation requirements. Solving trigonometric equations, working with trigonometric identities, and using triangles to solve real-life problems. Graphing calculators are recommended for this course.

**CIS College Algebra (SMSU)** **2 credits****MATH 110 College Algebra** **3 SMSU credits**

Course Number: 4131-4132

Grade Level: 11,12

Prerequisite: Must meet SMSU's CIS eligibility requirements and Passed Algebra 3 or Accelerated Algebra 3, OR Seniors with teacher approval who have passed Algebra 2

Description: A study of the fundamental concepts of algebra. Topics include: equations and inequalities; polynomial, rational, exponential, and logarithmic functions and their graphs; and systems of linear and nonlinear equations.

**CIS Precalculus (SMSU)**

**2 credits**

**MATH 135 PreCalculus**

**5 SMSU credits**

Course Number: 4121 – 4122

Grade Level: 10, 11, 12

Prerequisite: Must meet SMSU's CIS eligibility requirements

Description: A detailed study of mathematics needed for calculus. Concepts are presented and explored from a symbolic, graphical, and numerical perspective. Basic concepts covered include polynomial, rational, exponential, logarithmic, and trigonometric functions, complex numbers, linear systems, numerical patterns, sequences and series, and limits.

**AP Calculus**

**3 credits**

Course Number: 4134 – 4135 – 4136

Grade Level: 11, 12

Prerequisite: C- or above in Precalculus or department approval.

Description: This course follows the AP Calculus syllabus published by the College Entrance Examination Board and prepares the student to take the Advanced Placement Examination that is given in May. The results of this examination may allow the student to earn credit for a college Calculus 1 class. Topics covered in this class are categorized into "The Big 3" of Calculus: 1) Limits, 2) Derivatives, and 3) Integrals. The 3rd term of this class consists of 5 weeks of finishing Calculus 1 material, 2 weeks of introductory Calculus 2 material, and 2 weeks of review for the AP Exam.

**Mathematics Electives:**

**Coding in Python**

**1 credit**

Course Number: 4165

Grade Level: 9, 10, 11, 12

Prerequisite: Successful completion of Algebra 1A or its equivalent.

Description: This course covers the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills by using the language Python. The topics covered will include an introduction to programming, basic Python and console interaction, conditionals, looping, functions and exceptions, strings, creating and altering data structures, and extending data structures.

**Applied Technical Math**

**2 credits**

Course Number: 4163-4164

Grade Level: 11, 12

Prerequisite: MUST have passed Geometry or Acc. Geometry and either passed OR be currently enrolled in Algebra 2 or Acc. Algebra 2.

Description: This course introduces the fundamentals of applied arithmetic, geometry, and trigonometry as applied to Technical Career math problems. Topics covered include numbers, decimals, fractions, percentages, ratios and proportions, area, volume, English and Metric measurements, and basic algebra, geometry, trigonometry, angles, circles, functions, right and oblique triangles, and compound angles. These topics are covered through contextualized applications and exercises will be presented using the textbook exercises and a series of worksheets, with an emphasis on actual shop calculations. This course is articulated with Ridgewater college. Successful completion of this course may result in college credit at Ridgewater.

# Music

Music requires a four-term commitment. When registering for music courses, use four (4) sets of numbers. PSEO students must schedule their classes outside of their WHS Ensemble should they choose to continue with their music education.

## **Concert Band**

**4 credits**

Course Number: 8005 – 8006 – 8007 – 8008

Grade Level: 9

Prerequisite: Departmental approval is required.

Description: This class will acquaint students with a large variety of music, with an emphasis on interpretation and appreciation. Students will study rhythm and counting systems, notes, scale patterns, time signature, dynamics, articulations and phrasing. This class has out-of-school requirements for concerts, contests, pep band and pep band.

### **More Concert Band Music Combinations:**

Concert Band/Concert Choir: 8071-8072-8073-8074-8075-8076-8077-8078

Concert Band/Spanish 1: 8021-8022-8023-8024

Concert Band/Choir/Spanish 1: 8025-8026-8027-8028-8065-8066-8067-8068

## **Concert Choir**

**4 credits**

Course Number: 8061 – 8062 – 8063 – 8064

Grade Level: 9

Prerequisite: Middle School participation or departmental approval is required.

Description: This class will acquaint students with a large variety of musical literature with an emphasis on interpretation and appreciation. The course of study will include rhythm and counting systems, notes, scale patterns, time signatures, dynamics, articulations and solfège. This course is intended for students in their second year of choir or the equivalent. The music literature learned during this course of study will be performed at required concerts and contests outside the school day.

### **More Concert Choir Music Combinations:**

Concert Choir/Concert Band 8071-8072-8073-8074-8075-8076-8077-8078

Concert Choir/Spanish 1 8051-8052-8053-8054

Concert Choir/Band/Spanish 1 8025-8026-8027-8028-8065-8066-8067-8068

## **Varsity Band**

**4 credits**

Course Number: 8131 – 8132 – 8133 – 8134

Grade Level: 9, 10, 11, 12

Prerequisite: Departmental approval is required.

Description: Varsity Band includes continued technical training and activities in large ensemble performance as well as solo/ensemble experience. This class has out-of-school requirements for concerts, contests (including 8AA Large Group and Solo/ Ensemble), pep band and pep band.

### **More Varsity Band Music Combinations:**

Varsity Band/Varsity Choir 8301-8302-8303-8304-8401-8402-8403-8404

Varsity Band/Varsity Orchestra 8311-8312-8313-8314-8411-8412-8413-8414

Varsity Band/Var Choir/Varsity Orch 8331-8332-8333-8334-8431-8432-8433-8434-8435-8436-8437

Varsity Band/Spanish 2 8165-8166-8167-8168

Varsity Band/Var Choir/Spanish 2 8305-8306-8307-8308-8405-8406-8407-8408

Varsity Band/Var Orch/Spanish 2 8631-8632-8633-8634-8821-8822-8823-8824

**Varsity Choir****4 credits**

Course Number: 8171 – 8172 – 8173 – 8174

Grade Level: 9, 10, 11, 12

Prerequisite: Concert Choir or Departmental approval is required.

Description: This class will continue to acquaint students with a large variety of musical literature with an emphasis on interpretation and appreciation. The course of study will include rhythm and counting systems, notes, scale patterns, time signatures, dynamics, articulations, and solfege. The music literature learned during this course of study will be performed at required concerts and contests outside the school day. (8AA Large Group Contest) Solo/Ensemble contest is highly recommended for students in this ensemble.

**More Varsity Choir Music Combinations:**

Varsity Choir/Varsity Band 8301-8302-8303-8304-8401-8402-8403-8404

Varsity Choir/Varsity Orchestra 8321-8322-8323-8324-8421-8422-8423-8424

Varsity Choir/Var Band/Var Orch 8331-8332-8333-8334-8431-8432-8433-8434-8435-843-8437

Varsity Choir/Spanish 2 8731-8732-8733-8734

Varsity Choir/Var Band/Spanish 2 8305-8306-8307-8308-8405-8406-8407-8408

Varsity Choir/Var Orch/Spanish 2 8751-8752-8753-8754-8641-8642-8643-8644

**Varsity Orchestra****4 credits**

Course Number: 8231 – 8232 – 8233 – 8234

Grade Level: 9, 10, 11, 12 (strings only)

Prerequisite: Department approval is required

Description: This class will acquaint students with a large variety of orchestral literature, with an emphasis on interpretation and appreciation. Students will enhance their skills in rhythm, intonation, dynamics, articulations, bowings, phrasing, tone, balance, and blend. The music literature learned during this course of study will be performed at required concerts and contests (8AA Large Group Contest) outside the school day. Solo/Ensemble contest is highly recommended for students in this ensemble.

**More Varsity Orchestra Music Combinations:**

Varsity Orchestra/Varsity Band 8311-8312-8313-8314-8411-8412-8413-8414

Varsity Orchestra/Varsity Choir 8321-8322-8323-8324-8421-8422-8423-8424

Varsity Orch/Var Band/Var Orch 8331-8332-8333-8334-8431-8432-8433-8434-8435-843-8437

Varsity Orchestra/Spanish 2 8825-8826-8827-8828

Varsity Orch/Var Band/Spanish 2 8821-8822-8823-8824-8631-8632-8633-8634

Varsity Orch/Var Choir/Spanish 2 8841-8842-8843-8844-8751-8752-8753-8754

**Cardinal Band****4 credits**

Course Number: 8261 – 8262 – 8263 – 8264

Grade Level: 10, 11, 12

Prerequisite: Audition or Departmental approval is required.

Description: This class is intended for the advanced student in wind and percussion performance. It includes continued technical training with emphasis on extensive reading repertoire of high quality band music, theory, ear training, music appreciation and performance techniques. Large group playing and solo/ensemble experiences are included. This class has out-of-school requirements for concerts, contests (including 8AA Large Group and Solo/Ensemble), pep band, Marching band and the Central Lakes Conference Music Festival. Most are shared with Cardinal Choir and Cardinal Orchestra, and membership in this ensemble is contingent on them continuing in choir and orchestra. Sophomores and Juniors who drop choir or orchestra may be placed in another ensemble based on their replacement in the ensemble they drop. Students in this class will have the opportunity to enroll in AP Music Theory and instrumental lessons through MacPhail school of music.

**More Cardinal Band Music Combinations:**

Cardinal Band/Cardinal Choir 8341-8342-8343-8344-8441-8442-8443-8444

Cardinal Band/Cardinal Orchestra 8351-8352-8353-8354-8451-8452-8453-8454

Cardinal Band/Choir/Orchestra 8371-8372-8373-8374-8471-8472-8473-8474-8475-8476-8477-8478

Cardinal Band/AP Music Theory	8510-8511-8512-8513-8514-8515-8516-8517
Cardinal Band/Choir/AP Music Theory	8540-8541-8542-8543-8544-8545-8546-8547-8548-8549-8550-8551
Cardinal Band/Orch/AP Music Theory	8560-8561-8562-8563-8564-8565-8566-8567-8568-8569-8570-8571
Cardinal Band/Choir/Orch/AP Music Theory	8600-8601-8602-8603-8604-8605-8606-8607-8608-8609-8610-8611-8612-8613-8614-8615

### **Cardinal Choir 4 credits**

Course Number: 8271 – 8272 – 8273 – 8274

Grade Level: 11, 12

Prerequisite: A vocal audition is required.

Description: This class is intended for the advanced student in an a cappella choral performance ensemble. It includes rehearsing and performing an extensive repertoire of high quality choral music. This course also includes ear training, music appreciation, advanced solfege and music theory. The music literature learned during this course of study will be performed at required out-of-school concerts, contests and the Central Lakes Conference Music Festival. Most students are shared with the Cardinal Band and Cardinal Orchestra. Membership in this ensemble is contingent on them continuing in band and orchestra. Juniors who drop band or orchestra may be placed in another ensemble based on their replacement in the ensemble they drop. Students in this class will have the opportunity to enroll in AP Music Theory and voice lessons through Ridgewater College.

#### **More Cardinal Choir Music Combinations:**

Cardinal Choir/Cardinal Band	8341-8342-8343-8344-8441-8442-8443-8444
Cardinal Choir/Cardinal Orchestra	8361-8362-8363-8364-8461-8462-8463-8464
Cardinal Choir/Band/Orchestra	8371-8372-8373-8374-8471-8472-8473-8474-8475-8476-8477-8478
Cardinal Choir/AP Music Theory	8520-8521-8522-8523-8524-8525-8526-8527
Cardinal Choir/Band/AP Music Theory	8540-8541-8542-8543-8544-8545-8546-8547-8548-8549-8550-8551
Cardinal Choir/Orch/AP Music Theory	8580-8581-8582-8583-8584-8585-8586-8587-8588-8589-8590-8591
Cardinal Choir/Band/Orch/AP Music Theory	8600-8601-8602-8603-8604-8605-8606-8607-8608-8609-8610-8611-8612-8613-8614-8615

### **Cardinal Orchestra 4 credits**

Course Number: 8281 – 8282 – 8283 – 8284

Grade Level: 11, 12 (strings only)

Prerequisite: Audition or Departmental approval is required.

Description: This class is intended for the advanced string orchestra student. It emphasizes rehearsing and performing an extensive repertoire of high quality orchestral music and includes continued technical development with emphasis on ear training, performance techniques, and music appreciation. Focus will be on large group ensemble with performances including multiple required out-of-school concerts and the Central Lakes Conference Festival. An opportunity to perform at Solo/Ensemble contest and to audition for All-State Orchestra is also offered. Many students are shared with Cardinal Band and Cardinal Choir and membership in this ensemble is contingent on them continuing in band and choir. Sophomore and juniors who drop band or choir may be placed in another ensemble based on their replacement in the ensemble they drop. Students in this class will have the opportunity to enroll in AP Music Theory and instrumental lessons through MacPhail school of music.

#### **More Cardinal Orchestra Music Combinations:**

Cardinal Orchestra/Cardinal Band	8351-8352-8353-8354-8451-8452-8453-8454
Cardinal Orchestra/Cardinal Choir	8361-8362-8363-8364-8461-8462-8463-8464
Cardinal Orchestra/Band/Choir	8371-8372-8373-8374-8471-8472-8473-8474-8475-8476-8477-8478
Cardinal Orchestra/AP Music Theory	8530-8531-8532-8533-8534-8535-8536-8537
Cardinal Orchestra/Band/AP Music Theory	8560-8561-8562-8563-8564-8565-8566-8567-8568-8569-8570-8571
Cardinal Orch/Choir/AP Music Theory	8580-8581-8582-8583-8584-8585-8586-8587-8588-8589-8590-8591
Cardinal Orch/Band/Choir/AP Music Theory	8600-8601-8602-8603-8604-8605-8606-8607-8608-8609-8610-8611-8612-8613-8614-8615

**Chorales (for women's voices) 4 credits**

Course Number: 8251 – 8252 – 8253 – 8254

Grade Level: 10, 11, 12

Prerequisite: A vocal audition is required.

Description: This class is intended for the advanced student in choral performance. It includes rehearsing and performing an extensive repertoire of high quality SSAA choral music. This course also includes ear training, music appreciation, advanced solfege, and music theory. The music literature learned during this course of study will be performed at required out-of school and evening concerts, including 8AA Large Group and solo ensemble contests. Students in this class will have the opportunity to enroll in AP Music Theory and voice lessons through Ridgewater College.

**More Chorales Music combinations:**

Chorales/AP Music Theory 8500-8501-8502-8503-8504-8505-8506-8507

**AP Music Theory 1 credit**

Grade Level: 11, 12

Prerequisite: Departmental Approval and Private Lessons

Description: AP Music Theory is an option to juniors and seniors who are in a Cardinal Ensemble or Chorales. It is in addition to the regular course load of those classes. Students will work independently with high school instructors and private lesson teachers. It will build upon what we are learning in class and independent research and study. The final exam for this course will be the AP Music Theory Examination in May. This class is a year-long class with the performance group.

**AP Music theory Combinations:**

AP Music Theory/Chorales 8500-8501-8502-8503-8504-8504-8506-8507

AP Music Theory/Cardinal Band 8510-8511-8512-8513-8514-8515-8516-8517

AP Music Theory/Cardinal Choir 8520-8521-8522-8523-8524-8525-8526-8527

AP Music Theory/Cardinal Orchestra 8530-8531-8532-8533-8534-8535-8536-8537

AP Music Theory/Cardinal Band/Choir 8540-8541-8542-8543-8544-8545-8546-8547-8548-8549-8550-8551

AP Music Theory/Cardinal Band/Orch 8560-8561-8562-8563-8564-8565-8566-8567-8568-8569-8570-8571

AP Music Theory/Cardinal Choir/Orch 8580-8581-8582-8583-8584-8585-8586-8587-8588-8589-8570-8571

Ap Music Theory/Cardinal Band/Choir/Orch 8600-8601-8602-8603-8604-8605-8606-8607-8608-8609-  
8610-8611-8612-8613-8614

# Science

Students are required to earn at least 6 credits of science which include the following classes: Physical Science 9 or Accelerated Physical Science 9, Biology or Accelerated Biology, and one Chemistry OR Physics course listed below.

Chemistry/Physics Courses: Basic Physics, Physics, CIS General Physics SCSU, Chemistry in the Community ("ChemCom"), College Prep Chemistry, AP Chemistry, Principles of Engineering 1 & 2.

## **Suggested Course Sequences**

The WHS Science Department has suggested four different course sequences or "paths" for students. It is important to choose the path which will best prepare you for your plans when you graduate from high school. These "pathways" are only suggestions and may be modified to suit your individual needs and interests. Please read the course descriptions in this book and talk with a science teacher or a counselor if you have any questions about any of the courses.

<b>Science Path 1 (High interest in Science and College bound for science related field)</b>	<b>Science Path 2 (College bound but not in a science related field)</b>	<b>Science Path 3 (Struggle with Science and/or not college bound)</b>	<b>Science Path 4 (Behind grade level)</b>
Physical Science 9 or Acc. Physical Science 9	Physical Science 9 or Acc. Physical Science 9	Physical Science 9	Science Skills AND Physical Science 9
Biology or Acc. Biology	Biology or Acc. Biology	Biology	Biology
Physics, CP Chemistry, CIS Physics or AP Chemistry + choose any other science electives of interest	Physics or CP Chemistry and any other science electives of interest	Chem Com or Basic Physics	Chem Com or Basic Physics

## **Science Skills**

**2 credits**

Course Number: 5505 - 5506

Grade Level: 9, 10

Prerequisite: Did not pass or did not take Science 8 and/or Science 7

Description: This class is designed for students with limited language skills and for students who have failed 7th and/or 8th grade science. This course will give students the necessary skills needed to succeed in further science courses. Skills to be covered will include how to study, note taking, understanding science vocabulary, solving formulas, how to read a textbook, how to make a measurement, understanding units, knowing science equipment, and how to use the scientific method. Science concepts covered will come from Physical Science, Biology, and Earth Science.

## **Physical Science 9**

**2 credits**

Course Number: 5501 – 5502

Grade Level: 9

Prerequisite: Passing 3 out of 4 quarters of Science 8 or Science Skills

Description: This course is a study of the interactions and properties of matter and energy. Investigations in basic physics and chemistry will be the basis of this course. An experimental approach will be the method by which many of the concepts will be taught. Topics to be covered will include atomic structure, chemical bonding, chemical reactions, energy, force, work, machines and heat.





**Meteorology** **1 credit**

Course Number: 5590

Grade Level: 10, 11, 12

Prerequisite: Pass Physical Science 9 with a C or better

Description: Meteorology introduces students to basic concepts, including but not limited to structure, processes and evolution of Earth's atmosphere, weather and climate. This course will also guide students to consider potential benefits, costs and risks of how they interact with natural systems.

**Natural Disasters** **1 credit**

Course Number: 5830

Grade Level: 10, 11, 12

Prerequisite: Physical Science 9

Description: This course will learn about common disasters that occur in nature and determine what were the underlying causes for the destruction. It will focus on current natural disasters, which may include earthquakes, volcanoes, landslides, drought, flooding, hurricanes, tornadoes, super storms, and/or wild fires.

**CHEMISTRY AND PHYSICS****Chemistry in the Community** **2 credits**

Course Number: 5701 - 5702

Grade Level: 10, 11, 12

Prerequisite: Physical Science 9

Description: Chemistry in the Community is a first-year high school chemistry course that covers concepts in the context of societal issues. Students learn concepts on a need-to-know basis, evaluate data and make decisions based on their knowledge and observations. This lab-based course features activities that give students practice in applying their knowledge of chemistry. This class is designed for students interested in chemistry but not pursuing science.

**College Prep Chemistry** **2 credits**

Course Number: 5711 – 5712

Grade Level: 10, 11, 12

Prerequisite: Algebra 1A

Description: This course is designed for students interested in continuing their education at the college level. Chemistry is the study of matter and its interactions. Some of the topics explored in the class are elements, compounds and mixtures, the periodic table, the mole and mole concepts, chemical formulas and equations, atomic structure, phases of matter, radioactivity, quantum mechanics and chemical reactions. Students will perform extensive lab work.

**AP Chemistry** **3 credits**

**This class will be offered every other year. It will be available during the 2023-2024 school year.**

Course Number: 5733 – 5734 – 5735

Grade Level: 11, 12

Prerequisite: College Prep Chemistry or permission from instructor

Description: This course is designed for the student wishing to pursue a career in any science field or interested in taking the AP test in Chemistry. Topics included are a review of major points from College Prep Chemistry, reaction rates, reduction, oxidation reactions, acid/base reactions, electrochemical reactions and thermodynamics. Students will perform extensive lab work.

**Basic Physics****2 credits**

Course Number: 5751 - 5752

Grade Level: 10, 11, 12

Prerequisite: Successful completion of both terms of Physical Science 9 *and* both terms of Biology

Description: This is a course for students who want an introduction to physics and how things work in the physical world and is not designed to fit the needs of those who intend to go to college and study science related fields. The course is a simplified, relationship based course emphasizing how physics principles are used in everything around us in the technological world of our everyday lives.

**Physics****2 credits**

Course Number: 5741 – 5742

Grade Level: 10, 11, 12

Prerequisite: Algebra 1A

Description: This course is designed for the college-bound student or anyone interested in medical and technical careers. This course will cover all major areas of physics emphasizing: mechanics, waves, sound, optics, and electricity. Students will perform extensive lab work.

**CIS General Physics I SCSU****2 WHS credits****PHYS 231 General Physics I****4 SCSU credits****This class will be offered every other year. It will be available during the 2024-2025 school year**

Course Number: 5761 - 5762

Grade Level: 11, 12

Prerequisite: Successful completion of both terms of Physical Science 9, Biology and Geometry.

Must meet SCSU's PSEO eligibility requirements.

Description: Vectors; kinematics of uniformly accelerated motion; static equilibrium; work and energy; linear momentum; circular motion; rotational work, energy, and momentum; elasticity; fluid statics and dynamics; heat and temperature; kinetic theory of gases; laws of thermodynamics.

The following courses taught in the Industrial Technology Department or Ag Technology Department will meet a student's Physics requirement:

**Principles of Engineering 1 (\*PLTW course)****1 credit**

Course Number: 3541

Grade Level: 10, 11, 12

Prerequisite: Physical Science 9

Description: This course gives students the opportunity to explore engineering and engineering technology using science, technology, engineering and math to solve problems to benefit people. Topics include types of engineering, communication and documentation, the design process, mechanisms, thermodynamics, fluid systems, electrical systems and control systems.

**Principles of Engineering 2 (\*PLTW course)****1 credit**

Course Number: 3551

Grade Level: 10, 11, 12

Prerequisite: Principles of Engineering 1

Description: Students will solve engineering problems related to statics, strength of materials, material testing, reliability, linear motion and trajectory motion.

\*Note: Project Lead the Way (PLTW) courses. Students who complete Principles of Engineering 2 may qualify for college credit.

## BIOLOGICAL SCIENCE ELECTIVES

### Microbiology

1 credit

**This class will be offered every other year. It will be available during the 2024-2025 school year.**

Course Number: 5595

Grade Level: 10,11,12

Prerequisite: B- or higher in Biology, or a C- or higher in Accelerated Biology

Description: This course is a study of microorganisms. Goals of the class include the development of laboratory skills that enable the student to study microbes, such as microscope skills, staining and smear techniques, inoculation techniques and serial dilution skills. The student should learn about bacterial growth requirements, bacterial population and antibacterial factors. Students will perform extensive lab work.

### Zoology

1 credit

**This class will be offered every other year. It will be available during the 2024-2025 school year.**

Course Number: 5625

Grade Level: 10, 11, 12

Prerequisite: B- or higher in Biology, or C- or higher in Accelerated Biology

Description: This course is a study of animals from the simplest organisms to complex vertebrates. Goals of the class include the refinement of dissection skills and the awareness of the progression of complexity from the single celled organisms to the sophisticated multi-cellular organisms. Students will perform extensive lab work.

### CIS Introduction to Biology RWC

2 WHS credits

**BIOL 0100 Introduction to Biology 4 RWC credits**

Course Number: 5571 - 5572

Grade Level: 11, 12

Prerequisite: Physical Science 9 and Biology; must meet Ridgewater College PSEO requirements, and pass Reading ACCUPLACER test

Description: An introduction to the concepts which provide the basis for modern biological science. Includes basic biochemistry, cell structure and function, and the six kingdoms of life. A general education course for the liberal arts major. MnTC Goal: 3,10

### Forensic Science

1 credit

**This class will be offered every other year. It will be available during the 2023-2024 school year.**

Course Number: 5840

Grade Level: 11, 12

Prerequisite: Biology, Physical Science

Description: This class is designed to introduce the area of forensic science. Topics will include areas of chemistry (toxicology, instrumental analysis, hair and fiber), biology (DNA analysis, entomology, physiology, pathology), and physical science (ballistics, accident reconstruction, geology).

### Human Anatomy

2 credits

Course Number: 5661 - 5662

Grade Level: 11, 12

Prerequisite: B- or better in Biology/Acc Biology or teacher approval

Description: This course is recommended for students considering careers in human research, health, performance and medical fields. Laboratory investigations are integrated with the test and include dissection of various mammalian specimens. Participants will learn some fundamental terminology that is associated with human structure and function and will be required to complete multi-resource assignments and write lab reports.

**Genetics****1 credit**

Course Number: 5611

Grade Level: 11, 12

Prerequisite: B- or higher in Biology, or C- or higher in Accelerated Biology. Passed Algebra 2

Description: How is it possible for me to look different than either of my parents? Why are some genetic conditions more likely to impact particular genders or people in certain areas of the world? Are we on the brink of wiping out cancer and many other significant genetic diseases? If any of these questions sound interesting this class is for you. This is a rigorous class that will consist of lecture, lab, and individual/group activities. A student needs to have earned a B- or better in Biology and a C- or better in Accelerated Biology to take this class. The student must also have completed and passed Algebra 2. The course is intended for students interested in a Biology related course of study in college.

# Social Studies

In planning and selecting courses in Social Studies, students should be aware that it is important to have experience and background in several course areas.

Students in grade 9 **MUST** take American History 1/Government OR Co-Taught American History 1/ Government (CT).

Students in grade 10 **MUST** take American History 2 OR Accelerated American History 2

Students in grades 11 and 12 **MUST** take TWO Social Studies classes EACH YEAR. Within their junior and senior year they **MUST** take the following: World Geography, World History, Economics, and AT LEAST ONE elective course.

\*\* If the student's schedule permits, juniors and seniors **MAY** take MORE than two Social Studies courses each year.



## ELECTIVES OPEN FOR JUNIORS AND SENIORS



## OTHER ELECTIVE OPTIONS



## Co-Taught American History 1/Government (CT)

Course Number: 6011 - 6012 - 6013 - 6014

Grade Level: 9, 10, 11, 12

Prerequisite: Departmental approval is required

Description: This course is designed to give students an overview of American Historical events through the 1900s with an additional focus on English Language Development. The content includes the study of a broad range of individuals and groups, including renowned historical figures and ordinary "everyday" people. It also examines how the foundations of our government and how varying experiences, values, and goals of the American people have merged to shape our character and way of life. Students will receive 2 Social Studies core credits and 2 elective credits for this course.

**2 credits Social Studies; 2 credits elective**

**American History 1/Government                      2 credits**

Course Number:            6023 – 6024

Grade Level:                9

Prerequisite:                None

Description:                This course is designed to give students an overview of American Historical events through the 1900's. The content includes the study of a broad range of individuals and groups, including renowned historical figures and ordinary “everyday” people. It also examines how the foundations of our government and how varying experiences, values and goals of the American people have merged to shape our character and way of life.

**American History 2    2 credits**

Course Number:            6027 – 6028

Grade Level:                10

Prerequisite:                None

Description:                This course is designed to give students an overview of American History from approximately 1875 through the present day. The content includes the study of a broad range of individuals and groups and examines how varying experiences, values, and goals of these people have merged to shape our American character and way of life.

**Accelerated American History 2                      2 credits**

Course Number:            6037 – 6038

Grade Level:                10

Prerequisite:                A- average in American History 1 OR Departmental invitation is required to take this class.

Description:                This accelerated course is designed to give the student an in depth exposure to the American historical events from approximately 1875 to the present day. This course is for the serious student. Students should expect more reading and individual responsibilities.

**Social Studies Courses for Grades 11 and 12**

Students must select **AT LEAST TWO** of the following classes **EACH YEAR**.

**\*\*You are allowed to take more social studies classes if they fit within your schedule and graduation plan.**

**Economics    1 credit**

Course Number:            6030

Grade Level:                11, 12

Prerequisite:                None. **This class is REQUIRED for all students sometime within their junior or senior year.**

Description:                This course will prepare students for real life economic decisions as well as introduce the learner to theories encountered in post-secondary education. This class looks at the five sectors in our economy: consumer, business, government, bank and foreign economics, and shows how they relate to the flow of money. The students will be involved in many hands-on projects and classroom simulations.

**World Geography    1 credit**

Course Number:            6110

Grade Level:                11, 12

Prerequisite:                None. ***This class is REQUIRED for all students sometime within their junior or senior year.***

Description:                This course is designed for those students who have an interest in geography and who also need to fulfill the Minnesota State University Geography requirement for enrollment. The major

focus of this course will be to provide the student with an overview of the five themes of geography and be able to apply them to any country or region of the globe. The student will understand the geographic relationships between Willmar Minnesota and the United States and other regions, research geographic statistics and be able to map them in a variety of cartographic techniques.

**World History** **1 credit**

Course Number: 6120

Grade Level: 11, 12

Prerequisite: None. **This class is REQUIRED for all students sometime within their junior or senior year.**

Description: This course will survey the history of modern humans. The course concentrates on the ancient civilizations of the Middle East, Egypt, Greece and Rome. Through research, group work, discussions, and individual work, students will study how people have lived and changed throughout history.

**Psychology 1** **1 credit**

Course Number: 6080

Grade Level: 11, 12

Prerequisite: None

Description: Psychology 1 is an INTRODUCTION to the world of PSYCHOLOGY. We will explore questions like: Why do you do what we do? How do we do it? How does our BODY influence our behaviors? How do we OBSERVE others? How do people SEE us? How do we LEARN? How do we effectively REMEMBER things? How is human life CREATED and what factors influence our CHILD development? Nature? Nurture? Or Both? All of these questions will be explored in a unique class with Mr. Hovland that will help you learn to scientifically examine our human behaviors. COURSE TOPICS INCLUDE: Origin of Psychology, Research, Physiology and Behavior, Learning, Memory, Developmental Psychology, and Child Psychology.

**Psychology 2** **1 credit**

Course Number: 6085

Grade Level: 11, 12

Prerequisite: Psychology 1

Description: Psychology 2 continues our exploration of human behaviors from Psychology 1 with some new tricks in VIRTUAL REALITY and DIGITAL MEDIA. In this course we will examine MENTAL HEALTH disorders and many of the MISPERCEPTIONS of disorders like Depression, Schizophrenia, Phobias, and Dissociative Identity Disorder (Multiple Personality Disorder) that may be created from our society. We will look at what drives or MOTIVATES us as adolescents and adults in our daily life with sports, school, music, work and our hobbies. With these motivations we will also examine how we create our EMOTIONS and how they are different from person to person or events. And finally with Mr. Hovland and VIRTUAL REALITY, we will examine how we form our ATTITUDES, how we persuade others, and how companies like DISNEY get us to comply and purchase their products. COURSE TOPICS INCLUDE: Abnormal Psychology, Motivations and Emotions, Sports Psychology, Social Psychology (with the wonderful world of Disney), and Adolescent Developmental Psychology.

**AP Psychology** **1 credit**

Course Number: 6091

Grade Level: 12 (Juniors with Mr. Hovland's approval)

Prerequisite: Psychology 1 & 2 (B+ average) or Mr. Hovland's approval

Description: This course is designed to prepare students for the AP exam in Psychology.

Topics will include personality psychology, therapies, cognition and language, stress and adjustments, social psychology, intelligence, industrial and organizational psychology, measurement and statistics, and a review of the topics covered in Psychology 1 and Psychology 2.



**Sociology/Family Life****1 credit**

Course Number: 6071

Grade Level: 11,12

Prerequisite: None

Description: Interested in why families are the way they are today? This course prepares students to understand the nature, function, and significance of human relationships involving individuals and families. Topics include: family living, communication skills, self-awareness, crisis management, and the individual's roles and responsibilities within the family and community. **This course will count toward one of the 8 required Social Studies credits beginning in 2023-2024. Students who took this course prior to the 2023-2024 school year will not have this course count toward their required 8 credits.**

**AP American History****2 credits**

Course Number: 6133 – 6134

Grade Level: 11, 12

Prerequisite: B+ or higher in Acc. American History 2 or A- or higher in American History 2 or teacher permission.

Description: This course is designed for students interested in continuing their education in history and the humanities at a college-level pace. It is a continuation of Accelerated American History focusing on events from the age of colonization to the present. This course will require extensive reading, writing and discussion.

**SOCIAL STUDIES ELECTIVES****Current Events****1 credit**

Course Number: 6061

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: Current Events is a one term course that will focus on the topics and issues that are occurring in the world at the time the class is taught. Using a variety of sources, students will learn about the historical perspective of current events and use discussion and research to help understand what/why things are happening today. **This course does NOT count toward your 8 required social studies credits beginning in 2023-2024. Students who took this course prior to the 2023-2024 school year will receive core Social Studies credit.**

**Psychology and Film****1 credit**

Course Number: 2750

Grade Level: 11, 12

Prerequisite: Psychology 1 or teacher permission

Description: Psychology and Film is a course co-taught by Mrs. Grussing and Mr. Hovland in the Brau Performing Arts Center/Theater. In this course, we watch full feature films like *Up*, *Joker*, *Shutter Island*, *Crash*, *Seven Pounds* (and many more) to investigate psychological themes and literary analysis in modern cinema in reference to mental health disorders, lifespan development, personalities, altered states of consciousness, social perceptions, trauma and so much more. If you love movies, this is the class for you! You will develop an understanding of basic psychological principles as well as establish critical thinking and analysis skills that you have never explored before! **This class does NOT count toward your 8 required Social Studies credits.** Students who have taken Psychology through PSEO, must talk to Mr. Hovland PRIOR to taking this course.

**Introduction To Education****1 credit**

Course Number: 6130

Grade Level: 11, 12

Prerequisite: None

Description: Are you possibly THINKING of becoming a teacher, childcare educator, principal, paraprofessional, or counselor? Or, are you just CURIOUS about the many careers and vast benefits in education? If so - then this class is for you! With the guidance of Mr. Hovland, you and your peers will explore current practices of the teaching profession, how children learn in elementary, middle school, and high school classrooms, and what it means to be an education professional today. **This class does not count toward your 8 required Social Studies credits.**

**Field Experience for Introduction To Education 1 credit**

Course Number: 6135

Grade Level: 11, 12

Prerequisite: Introduction to Education AND Mr. Hovland's approval

Description: This field experience is an opportunity to observe and participate with Willmar Public School teachers. Students will be assigned to a teacher at our preschool, elementary, middle school, or high school classrooms, where they will apply the knowledge and skills gained from our Introduction to Education course. This is a true opportunity to experience the teaching profession! Interested students need to have good attendance, a GPA of 3.0, and permission from Mr. Hovland. **This class does not count toward your 8 required Social Studies credits.**

**Intro to Law 1 credit**

Course Number: 6050

Grade Level: 9,10

Prerequisite: None

Description: Intro to Law is a hands on course. Do you enjoy law + crime shows? Have you ever thought about being a lawyer, politician, or criminal investigator? Would you enjoy mock trials, debates, or real-life application of content? If so, INTRO TO LAW allows you to test out those occupations while learning about criminal law, our justice system, and how our government runs. This course does not count toward your 8 required Social Studies credits. **This class does not count toward your 8 required Social Studies credits.**

# Technology Education

The Technology Education Department offers several courses in the Project Lead the Way (PLTW) curriculum. Project Lead the Way is a program that promotes engineering and engineering technology at the high school level. It introduces students to engineering and technology related careers. There is a final exam given at the end of each course. The Willmar courses are: Introduction to Engineering Design (IED) 1 and 2, Principles of Engineering (POE) 1 and 2, Digital Electronics (DE) 1 and 2, and Civil Engineering and Architecture (CEA).

## **Intro to Technology Education**

**1 credit**

Course number: 3500

Grade Level: 9, 10, 11

Prerequisite: None

Description: Students will be introduced to the world of technology through short units with hands-on activities. This course is for students looking to explore technology and explore the technology education courses. Topics may include graphic arts, flight, website design, architecture, pneumatics, drafting, 3D printing, map reading and more.

## **Introduction to Engineering Design 1 (PLTW course)**

**1 credit**

Course Number: 3501

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: This course is a drafting and design course where students will design projects on the computer using CAD software. They learn design skills and drafting techniques used to create 3-D parts, 2-D drawings, 3-D assemblies and exploded parts views. The students use assembly drawings to learn animation techniques to analyze the motion of moving parts.

## **Introduction to Engineering Design 2 (\*PLTW course)**

**1 credit**

Course Number: 3511

Grade Level: 9,10,11,12

Prerequisite: Introduction to Engineering Design 1

Description: This course is designed for the student interested in technical illustration and engineering careers. Concentration will be on fasteners, sections, working and pictorial drawings. Students will be using the CAD system to further understand its applications to 3-D modeling. This course will satisfy an Art credit.

## **Civil Engineering and Architecture (\*PLTW course)**

**2 credits**

Course Number: 3521 - 3522

Grade Level: 10, 11, 12

Prerequisite: Introduction to Engineering Design 1

Description: This is a two term class that will teach the students how to design buildings, roads, and bridges. Students will learn site planning, surveying, landscaping, utilities, water treatment, architecture and structural engineering. Students will work in teams to design projects and create scale models of their designs. They will learn to create floor plans, section views, elevations, mechanical and electrical plans, foundation plans, roof systems, columns and beams, and schedules. Students will learn to create 3-D animations of their projects, called a walk thru, that allows a customer to visualize a building before it is actually built.

## **Principles of Engineering 1 (\*PLTW course)**

**1 credit**

Course Number: 3541

Grade Level: 10, 11, 12

Prerequisite: Physical Science 9

Description: This course gives students the opportunity to explore engineering and engineering technology using science, technology, engineering and math to solve problems to benefit people. Topics

include types of engineering, communication and documentation, the design process, mechanisms, thermodynamics, fluid systems, electrical systems, and control systems. **This class will meet one Physics credit.**

**Principles of Engineering 2 (\*PLTW course) 1 credit**

Course Number: 3551  
Grade Level: 10, 11, 12  
Prerequisite: Principles of Engineering 1  
Description: Students will solve engineering problems related to Statics, Strength of Materials, Material Testing, Reliability, Linear Motion and Trajectory Motion. Students will design and build ballistic devices and bridges and will test the strength of different materials. **This class will meet a 2nd Physics credit.**

**Digital Electronics 1 (\*PLTW course) 1 credit**

Course Number: 3630  
Grade Level: 10, 11, 12  
Prerequisite: None (Algebra Recommended)  
Description: Students will study electricity, voltage, current, resistance, resistors, Ohm's Law, series and parallel circuits, and capacitors. They will learn about binary numbers, seven segment displays and digital logic gates. Soldering skills will be learned and practiced by purchasing and building an electronic kit. Payment for each project is required.

**Digital Electronics 2 (\*PLTW course) 1 credit**

Course Number: 3635  
Grade Level: 10, 11, 12  
Prerequisite: Digital Electronics 1  
Description: Students will use their knowledge to build electronic circuits and systems to solve problems. They will also study advanced digital concepts including: sequential logic, programmable logic devices, latches, flip-flops, counters, state machines and microcontrollers. Payment for each project is required.

**Engineering Design & Development (\*PLTW course) 2 credits**

Course Number: 3531 - 3532  
Grade Level: 10, 11, 12  
Prerequisite: Departmental Approval  
Description: This course offers a team approach to technological problems: Challenges; High Mileage Vehicle; Mechanical Engineering; Architecture; and Civil Engineering. Teams will work on solutions to a problem to be presented at state competitions. This course will require the student to do a considerable amount of work outside of class.

**\*NOTE: Project Lead the Way (PLTW) courses:** Students who complete Introduction to Engineering Design 2, Principles of Engineering 2, Digital Electronics 2, and Civil Engineering and Architecture may qualify for college credits through the University of Minnesota.

**Metals\*\* 1 credit**

Course Number: 3565 or 3566 or 3567 (if repeating for credit)  
Grade Level: 10, 11, 12  
Prerequisite: Welding or Welding for Girls  
Description: This class covers metal shop procedures in a variety of metal shop areas. It includes project work plus use of metal working equipment and tools. This course may be repeated for credit. Payment for each project is required.

**Woodworking 1\*\*****1 credit**

Course Number: 3570

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: This course teaches the proper use of machines and tools. All students complete a project. Payment for each project is required.

**Woodworking 2\*\*****1 credit**

Course Number: 3585 or 3586 or 3587 (if repeating for credit)

Grade Level: 10, 11, 12

Prerequisite: Woodworking 1

Description: The principles and procedures of advanced woodworking are taught in this course. Students will plan and construct projects of their choice. This course may be repeated for credit. Students who retake this course two times may qualify for Advanced woodworking options. Payment for each project is required.

**Robotics****1 credit**

Course Number: 3620

Grade Level: 10, 11, 12

Prerequisite: Digital Electronics 1 or Principles of Engineering 1

Description: Students learn to design programs for automated machines using pneumatic trainers and simulations. Students will learn to program a programmable logic controller using timers, counters, inputs and outputs. Students will also learn the components of pneumatic systems and their functions.

**Automated Manufacturing****1 credit**

Course Number: 3640

Grade Level: 10, 11, 12

Prerequisite: Welding or at least 1 credit in Technology Education

Description: Manufacturing transforms ideas into products. This course provides an opportunity for students to develop a better understanding of this innovative and exciting industry. Students learn about manufacturing processes, product design, robotics, and automation. Students develop their knowledge and skills in Computer Aided Design (CAD) and Manufacturing to produce products using a Computer Numerical Controlled (CNC) mill, laser cutter, plasma cutter, and 3D printer.

**Manufacturing and Production Careers 1 credit**

Course Number: 3650

Grade Level: 11, 12

Prerequisite: Departmental Approval required

Description: This course will contain instruction in Drafting, Mechanics, Welding, Robotics, and Carpentry. All students will receive training in all of these career areas. Students will train with industry professionals at their worksites and at the high school. The manufacturing companies are looking for qualified students to move into an internship and possible future employment.

**\*\* for ALL shop courses all students must pay for 1/2 of the approximate project cost before the 2nd week of the course. This fee will cover some of the materials to be used in the course. The remaining materials fee will be due at the END of the course. The courses this applies to are: Woodworking 1, Woodworking 2, Carpentry, and Metals.**

# World Language

Willmar Senior High is proud to offer two world languages for our students to study: Spanish and Chinese. Our World Language department works hard to bring not only the study of language, but also study of culture to their courses. Students who take three years of Spanish or Chinese are able to participate in the World Language trip as a junior or senior student.

Spanish students who choose to can participate in CLEP testing to earn college credit in world language. Unfortunately the College Board does not have a Chinese CLEP test.

Students can save time and money:

- Take enough high school language to test out of all or part of college level language requirements.
- Most four-year colleges recommend a minimum of 2 years/semesters of high school language
- Take the CLEP test and receive up to 12 Spanish language credits (Ridgewater is a testing center)

CLEP [website](http://clep.collegeboard.org/world-languages/): [clep.collegeboard.org/world-languages/](http://clep.collegeboard.org/world-languages/)  
Ridgewater testing center info can be found [HERE](#)

## World Language Trips

As part of the World Languages program, a trip is offered every other year around the time of spring break. The next trip is scheduled for spring 2022. This trip is designed to give students the opportunity to use their new language, to visit important historical sites and to experience the culture they have been studying. Participants must be juniors or seniors currently enrolled at Willmar High School, doing passing work in all courses and a student is good standing in all aspects. Students must be enrolled in or have completed level 3 of a language during the trip school year. It is required that students whose language class is in progress at the time of the trip will complete the class after the trip.

## SPANISH

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### Who should take Spanish?

#### Spanish 1-4

- Students with little or no Spanish
- Recommended for college-bound students
- 4-year colleges require 3-4 semesters for graduation. Students may test out of part or all of their requirement via language classes in high school.

#### Spanish

#### Spanish for Heritage Speakers

- Spanish is spoken at home
- Students read and write Spanish very little
- Little to no formal education in Spanish
- Wish to preserve Heritage
- 1 Term, Accelerated Spanish 1, Placement Test for Spanish 2-4

#### Spanish for Native Speakers

- Speaks Spanish at home, with friends, at school
  - Can read and write Spanish
  - Have had some formal schooling in Spanish
  - 1 Term, may be repeated
-

**Spanish 1** **2 credits**

Course Number: 6701 - 6702

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: Students will use Spanish in order to interact and negotiate meaning in spoken and written conversations to share information, reactions, feelings, and opinions. Students will interpret and analyze what they hear and read on a variety of topics. Topics include: basic information (colors, numbers, greetings, alphabet, weather, body parts), talking about myself and others, school schedule and classroom times, food and healthy lifestyle, hobbies and activities. Students learn and practice the present tense and the simple future. Students compare and contrast Spanish speaking cultures with their own.

**SPANISH1/MUSIC SKINNY OPTIONS:****Spanish 1/Concert Band** **2 credits**

Course Number: 6703 – 6704 – 6705 – 6706

Grade Level: 9

This class will schedule concurrently with Concert Band 8021 – 8022 – 8023 – 8024.

**Spanish 1/Concert Choir** **2 credits**

Course Number: 6707 – 6708 – 6709 – 6710

Grade Level: 9

This class will schedule concurrently with Concert Choir 8051 – 8052 – 8053 – 8054.

**Spanish 1/Concert Band/Choir** **2 credits**

Course Number: 6765 – 6766 – 6767 – 6768

Grade Level: 9

This class will schedule concurrently with Concert Choir and Concert Band 8025-8026-8027-8028-8065-8066-8067-8068

**Spanish 2** **2 credits**

Course Number: 6711 - 6712

Grade Level: 9, 10, 11, 12

Prerequisite: Spanish 1

Description: Students will use Spanish in order to interact and negotiate meaning in spoken and written conversations to share information, reactions, feelings, and opinions. Students will interpret and analyze what they hear and read on a variety of topics. Topics include: family and relationships, description and eating at a restaurant, house and chores, clothing and shopping, trips and the environment. Students will learn to speak in the past tense. Students compare and contrast Spanish speaking cultures with their own.

**SPANISH 2/MUSIC SKINNY OPTIONS:****Spanish 2/Varsity Band** **2 credits**

Course Number: 6713 – 6714 – 6715 – 6716

Grade Level: 10, 11, 12

Prerequisite: Spanish 1/Band

This class will schedule concurrently with Varsity Band 8165 – 8166 – 8167 – 8168.

**Spanish 2/Varsity Choir** **2 credits**

Course Number: 6717 – 6718 – 6719 – 6720

Grade Level: 10, 11, 12

Prerequisite: Spanish 1

This class will schedule concurrently with Varsity Choir 8731 – 8732 – 8733 – 8734.

**Spanish 2/Varsity Orchestra** **2 credits**

Course Number: 6773 – 6774 – 6775 – 6776

Grade Level: 10, 11, 12

Prerequisite: Spanish 1/Orchestra

This class will schedule concurrently with Varsity Orchestra 8825-8826-8827-8828

**Spanish 2/Varsity Choir/Orchestra** **2 credits**

Course Number: 6781 – 6782 – 6783 – 6784

Grade Level: 10, 11, 12

Prerequisite: Spanish 1/Choir/Orchestra

This class will schedule concurrently with Varsity Choir/Orchestra 8751 – 8752 – 8753 – 8754 – 8841 – 8842 – 8843 – 8844.

**Spanish 2/Varsity Band/Choir 2 credits**

Course Number: 6769 – 6770 – 6771 – 6772

Grade Level: 10, 11, 12

Prerequisite: Spanish 1/Band/Choir

Description: This class will schedule concurrently with Varsity Band/Choir 8405 – 8406 – 8407 - 8408 – 8305 – 8306 – 8307 – 8308.

**Spanish 2/Varsity Band/Orchestra 2 credits**

Course Number: 6777 – 6778 – 6779 – 6780

Grade Level: 10, 11, 12

Prerequisite: Spanish 1/Band/Orchestra

This class will schedule concurrently with Varsity Band/Orchestra 8631 – 8632 – 8633 – 8634 – 8821 – 8822 – 8823 – 8824.

**Spanish 3 2 credits**

Course Number: 6721 – 6722

Grade Level: 9, 10, 11, 12

Prerequisite: Spanish 2

Description: Students will use Spanish in order to interact and negotiate meaning in spoken and written conversations to share information, reactions, feelings, and opinions. Students will interpret and analyze what they hear and read on a variety of topics. Topics include: school routines and after school activities, daily preparation routines and special events, clothing and shopping, community and habits, giving and receiving directions, childhood memories, describing past events. Students will practice both preterite and imperfect tenses. Students compare and contrast Spanish speaking cultures with their own.

**Spanish 4 2 credits**

Course Number: 6731 – 6732

Grade Level: 9, 10, 11, 12

Prerequisite: Spanish 3

Description: Students will use Spanish in order to interact and negotiate meaning in spoken and written conversations to share information, reactions, feelings, and opinions. Students will interpret and analyze what they hear and read on a variety of topics. Topics include: describing past events with preterite and imperfect verbs, describing natural disasters and accidents, discussing television programs and movies, cooking and food, planning a trip and traveling through the airport. Students will practice both preterite and imperfect tenses, adding present perfect and future. Students compare and contrast Spanish speaking cultures with their own.

**Spanish 5 2 credits**

Course Number: 6751 - 6752

Grade Level: 11, 12

Prerequisite: Spanish 4

Description: Students will reinforce previously learned grammar and learn new grammatical structures. Students will listen, speak and write more accurately and understand more complex verbal and written language. Students will learn to communicate with a significant degree of accuracy. Students will continue cultural studies through authentic literature and related topics. If there are not enough students to offer this class it may be taken as an Independent Study. Students must have a grade average of A/B in previous Spanish courses and the permission of the instructor.

**Spanish for Heritage Speakers 1 credit**

Course Number: 6762

Grade Level: 9, 10, 11, 12



Prerequisite: None

Description: Spanish for Heritage Speakers is designed for heritage speakers of Spanish who already have some oral language proficiency. The purpose of this course is to enable students whose heritage language is Spanish to develop, maintain, and enhance proficiency in Spanish. This one-term course will provide the opportunity to listen, speak, read, and write and to explore the culture of the Hispanic world. It is an exploratory course that may serve as a bridge to future Spanish 2, 3 or 4 courses. SHS is meant for students who speak some Spanish or are bilingual but wish to develop more fully their skills in reading and writing the language and will allow students to explore their options for continued Spanish study.

This course is appropriate if:

- \* You speak Spanish at home, but cannot read or write much Spanish.
- \* You have had little to no formal education in Spanish.
- \* You want to preserve your heritage and begin to learn to read and write in Spanish.

### **Spanish for Native Speakers 1 credit**

Course Number: 6760

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: In this course, students who already read, write, speak and comprehend Spanish will explore themes and topics related to identity as a bilingual student, globalization, current events, Spanish/Spanish-American literature, culture of Spanish speaking countries and popular culture. Comparisons will be made between Spanish and English language with particular emphasis on detailed grammatical structures. Students will write essays and give presentations about classroom topics and themes.

This course is appropriate if:

- \* You speak Spanish fluently at home, with friends and at school
- \* You can read and write Spanish to a degree
- \* You have had some formal schooling in Spanish
- \* You want to improve your reading and writing skills in a challenging environment.

## **CHINESE**

### **Chinese 1 2 credits**

Course Number: 6901 – 6902

Grade Level: 9, 10, 11, 12

Prerequisite: None

Description: In Chinese 1, students learn how the Chinese language is formed and how characters developed over time. They will learn basic vocabulary and conversations to introduce and describe themselves, other people, and objects. Students will be able to talk about their hobbies, likes and dislikes, and the weather. In addition, students will learn the locations and backgrounds of some of the most important places in China. Lessons are also given about major Chinese holidays and how to make traditional Chinese crafts. Students in Chinese 1 will learn about the arts and foods of China and learn about China through videos and movies.

### **Chinese 2 2 credits**

Course Number: 6911 – 6912

Grade Level: 10, 11, 12

Prerequisite: Chinese 1

Description: In Chinese 2 students review and build on vocabulary and grammar from Chinese 1. They will learn to communicate in more depth about the topics they learned in Chinese 1. In Chinese 2 they will also learn to talk about their daily schedule, their abilities in a variety of skills, their school day and classes, how they feel about various activities, and more. In addition, students will learn about the 6 major

dynasties of Chinese history, and make their own Terracotta Warriors. Students will continue to learn about the arts and foods of China and learn about China through videos and movies. 9th and 10th graders cannot double up with Chinese 1 and 2 in the same school year.

### **Chinese 3**

**2 credits**

Course Number: 6921 – 6922

Grade Level: 9, 10, 11, 12

Prerequisite: Chinese 2

Description: Students will strengthen their Chinese communication skills by reviewing and expanding on the topics, vocabulary and grammar learned in Chinese 1 and 2. A stronger emphasis is placed on being able to speak in Chinese. Students will also continue to learn about the arts and foods of China and learn about China through videos and movies. A special focus will be placed on the history of China in the 20th and 21st Centuries. Students will prepare for any or all of the following:

- to strengthen their Chinese for college preparedness
- to be able to communicate on a trip to China
- to personally develop a deeper understanding and appreciation of China and its culture and history.

Students will have the opportunity to research a topic of personal interest about China. They will work with the teacher to prepare what the topic will be and what the results should include.

# Career/School/Community Partnership

The Career/School/Community partnership programs are an opportunity for students to combine in-school learning with practical learning experiences in the community. Combining school and the community into one learning experience will enable students to better define their career goals, provide a more meaningful learning environment and give students an understanding of the opportunities existing in the community.

## STUDENT, TEACHER, & DEPARTMENT ASSISTANT/INDEPENDENT STUDY

### Student Assistant

**0 credits**

Grade Level: 12  
Prerequisite: MUST be on track for graduation, have good attendance and no NCs.  
Description: This is a non-credit bearing course. This course is set up through an application available in the Counseling Office in the fall. Students will receive a Pass/Fail grade. This course may be taken only one time during a student's Senior year.

### Teacher Assistant

**1 credit**

Grade Level: 11, 12  
Prerequisite: MUST be on track for graduation, have no NCs and have good attendance.  
Description: This course is designed for students who are interested in helping a teacher in the classroom setting. Students will receive a Pass/Fail grade and an elective credit toward graduation. This application is available in the Counseling Office in the fall. This course may be taken once per year during a student's Junior or Senior year.

### Department Assistant

**1 credit**

Grade Level: 12  
Prerequisite: 3.0 GPA and on track for graduation  
Description: This course is designed for students who are interested in a specific area or department. Students will be expected to assist teachers in the classroom along with completing coursework and outside homework in order to receive credit. Students will receive a letter grade upon completion of this course. This application is available in the Counseling office in the fall.

### Independent Study

**1 credit**

Grade Level: 11, 12  
Prerequisite: *Juniors*: 3.5 GPA; *Seniors*: 3.25 GPA  
Description: This course is geared toward the student who has a high level of interest in a specific area, or field of work, who wants to learn more about the subject. Students will work with a teacher to create a syllabus detailing what the student will study and how the student will be evaluated. The student will work on his/her own completing the required work. The application for this is available in the Counseling Office in the fall. The application needs to be completed prior to the start of the term in which they will do the Independent Study. Please see your counselor for more information.

### Cultural Assistant

**1 credit**

Grade Level: 12  
Prerequisite: Department approval is required  
Description: This Course is for students who have an interest in working with English Learners (EL). Cultural Assistants will work with students who are at a beginning English language level in an EL classroom. This class will offer a unique and diverse cultural experience. A weekly journal, reading assignments and a final project will be required.

### Drivers Education

**1 credit**

Course Number: 6160  
Grade Level: 9, 10, 11, 12  
Prerequisite: None  
Description: This course is to help prepare young drivers to operate motor vehicles legally,

safely, and responsibly. Students will learn about safe driving techniques and the proper attitude and driving behaviors necessary to operate an automobile safely in our community through in class discussions, lectures, simulations, and guest speakers. This class will cover all the driving rules and regulations in the state of Minnesota in order to prepare students to pass the Minnesota Driving written exam. The course will also focus on other topics relevant to driving, such as purchasing and financing a vehicle, automobile insurance, defensive driving, and vehicle maintenance.

**REACH** **up to 4 credits**

Grade Level: 9, 10, 11, 12

Prerequisite: Invitation from REACH staff

Description: REACH is a course developed in collaboration with the WHS School Counselors, School Social workers, teachers, administration and other schools across the state. The purpose of the course is to help at-risk students be successful in working toward graduation. The course will focus on executive functioning skills i.e. organization skills, homework/study skills etc. We also work on relationship building, character education, connection to school and community, goal setting, and planning for the future. We hope to achieve these goals through field trips, community speakers, and weekly mentoring and tutoring.

**PSEO CDL Prep for Written Test** **1 credit**

Course Number: 7115

Grade Level: 11, 12

Prerequisite: Must have a valid Drivers License and must be 18 years of age by June 1, 2024

Description: Acquire your class A Commercial Drivers License through training with Ridgewater college. Students who take this course will learn all required information and skills to obtain their Class A CDL license, opening up opportunities for summer employment and post graduation employment. Topics include: safety, defensive driving, truck operation and maintenance, and driving experience. This course is taught at WHS during our school day by Ridgewater faculty.

**Kandiyohi CEO** **4 credits**  
**(Creating Entrepreneurial Opportunities)**

Course Number: 6125, 6126, 6127, 6128

Grade Level: 11, 12

Prerequisite: Must apply to be a part of this course. Must dress and act appropriately, be punctual, provide your own transportation.

Description: This CEO class partners with local businesses to create a real world educational experience. Eighteen to twenty students will be selected through a rigorous application process to participate in the year-long class. Instead of students learning about entrepreneurship in a classroom setting, students will visit over forty local businesses throughout the year and have fifty to sixty guest speakers. Students will also not take tests or do homework in the traditional sense. They will be creating their own business and presenting them to local banking investors and entrepreneurs via private meetings and an annual trade show. Students will graduate from this class owning a business. The Kandiyohi CEO program will be open to students from ACGC, NLS, & WPS. This class runs ninety minutes, off campus, from 7:15-8:45am Monday-Friday. Click [HERE](#) for more information about the program. The application is digital this year - fill it out [HERE](#). This course meets requirements of one Economics credit.

# Special Education

Registration for Special Education classes must be completed through the Counseling Office. Individual meeting with the counselors and special education staff involved will be required. Classes will be graded Pass/Fail and will be recorded as an elective credit.

## **Learning For Life**

Course Number: 7045 – 7046 – 7047 – 7048  
Grade Level: 9, 10, 11, 12  
Prerequisite: Meet Minnesota state criteria  
Description: Students who meet Minnesota state criteria will receive service in a resource room setting. This will be specialized instruction on an individual or small group basis, based on IEP goals. The instruction will include, but is not limited to, social skills, behavior management and organizational skills.

## **Academic Strategies**

Course Number: 7601 – 7602 – 7603 – 7604  
Grade Level: 9, 10, 11, 12  
Prerequisite: Meet Minnesota state criteria  
Description: Students who meet Minnesota state criteria will receive service in a resource room setting. This will be specialized instruction on an individual or small group basis, based on IEP goals. The instruction will include, but is not limited to, reading, writing, math and transition.

## **Everyday Academics**

Course Number: 7065 – 7066 - 7067 – 7068  
Grade Level: 9, 10, 11, 12  
Prerequisite: Meet Minnesota state criteria  
Description: Students who meet Minnesota state criteria will receive service in a resource room setting. This will be specialized instruction on an individual or small group basis, based on IEP goals. The instruction will include, but is not limited to, the functional application of reading, writing and math skills.

## **Fundamental Skills**

Course Number: 7085 – 7086 – 7087 – 7088  
Grade Level: 9, 10, 11, 12  
Prerequisite: Meet Minnesota state criteria  
Description: Students who meet Minnesota state criteria will receive service in a resource room setting. This will be specialized instruction on an individual or small group basis, based on IEP goals. The instruction will include, but is not limited to, daily living skills, appropriate social skills, vocational skills, and functional academics.

## **Community Work Experience**

Course Number: 7075 – 7076 – 7077 – 7078  
Grade Level: 9, 10, 11, 12  
Prerequisite: Permission of the Individual Education Planning team  
Description: The student with special needs, which cannot be met in the regular school program, will be provided vocational training. Work experience placement sites and vocational skills training and job seminars will be provided based upon individual student needs.

## **Experiential Learning Center**

Course Number: 7095 – 7096 – 7097 – 7098  
Grade Level: 9, 10, 11, 12  
Prerequisite: Meet Minnesota state criteria. Permission of the Individual Education Planning team  
Description: This workshop is designed for students who need to learn basic job holding skills

such as: accepting criticism, following directions, staying on task, physical stamina. The objective of the class is to develop skills to become an employee in a supervised work environment.

### **Developmental Physical Education**

Course Number: 3105 – 3106 – 3107 – 3108

Grade Level: 9, 10, 11, 12

Prerequisite: Meet Minnesota state criteria

Description: Students who meet Minnesota state criteria or who have a need for DAPE services will receive service in a physical education setting. This will be specialized instruction on an individual or small group basis, based on IEP goals. The instruction will include, but is not limited to, activities that are the utmost benefit to the individual's capabilities and leisure skills that can be completed independently. Student assistants will assist students in fitness and leisure skill activities.

### **Individualized Skills**

Course Number: 7071 – 7072 – 7073 – 7074

Grade Level: 9, 10, 11, 12

Prerequisite: Meet Minnesota state criteria

Description: Students who meet Minnesota state criteria will receive service in a resource room setting. This will be specialized instruction on an individual or small group basis, based on IEP goals. The instruction will include, but is not limited to, hearing-impaired services related to language, reading, writing and math.

### **Transition Work Experience/Goodwill**

Course Number: 7754

Grade Level: 9, 10, 11, 12

Prerequisite: Meet Minnesota State criteria

Description: Students who meet Minnesota state criteria will receive service in the resource room. This will be specialized instruction in work topics on an individual or small group basis, based on IEP goals, grade level and graduation requirements. Social skills training, interpersonal relationship skills training, self-determination skills training, time management skills training and coping strategies will be incorporated into the curriculum

### **Transition Studies**

Course Number: 7757

Grade Level: 9, 10, 11, 12

Prerequisite: Meet Minnesota State criteria

Description: Students who meet Minnesota state criteria will receive service in the resource room. This will be specialized instruction on an individual or small group basis, based on IEP goals, grade level and graduation requirements. Social skills training, interpersonal relationship skills training, self-determination skills training, time management skills training and coping strategies will be incorporated into the curriculum.

**The Special Education department also has Student Assistant and Teacher Assistant opportunities available.**

### **Student Assistant/Teacher Assistant**

Grade Level: 12

Prerequisite: 3.25 GPA - Must be on track for graduation

Description: This course is for students who have a genuine interest in working with teachers who serve student with developmental, behavioral, or academic challenges. This class will offer a unique experience in assisting in a setting that focuses on the diverse educational needs of others.

# Course List-At A Glance

## AG EDUCATION

Exploring Agriculture	1010
Wildlife Management 1	1040
Wildlife Management 2	1050
Natural Resources 1	1060
Natural Resources 2	1065
Floral Design 1	1070
Floral Design 2	1080
Floral Design 3	1090
Horticulture	1105
Landscaping	1110
Greenhouse Management	1115
Companion Animals 1	1120
Companion Animals 2	1121
Animal Science	1125
Foods and Nutrition	1150
Small Engines	1180
Adv. Small Engines	1190
Carpentry	1220
Electrical Wiring	1240
Drones	1270
Welding	1250
Welding for Girls	1255
Adv. Welding for Girls	1256
Vehicle Maintenance	1260
Home Maintenance	1275
Ag Career Link	7245

## STUDIO ART

Art and Design	1500
Ceramics	1520
2D Design	1570
Paint	1550
Digital Media	1560
3D Design	1540
Adv. Ceramics	1593
Adv. 2D Design	1545
Adv. 3D Design	1555
AP Studio Art - Drawing	1575-1576
AP Studio Art - 2D Art & Design	1585-1586
AP Studio Art - 3D Art & Design	1597-1598

## BUSINESS

Keyboarding	2000
Computer & iPad Apps. 1	2030
Computer & iPad Apps 2	2035
Game Design 1	2191
Game Design 2	2192
Mobile App Coding (Java)	2040
Money Today	2010
Business World	2200
Personal Finance	2015
Business Management & Entrep.	2106
Business & Pers. Law*	2110
Sports & Entertainment Marketing	2160
Accounting 1	2041
Accounting 2	2042

## ENGLISH LANGUAGE ARTS

Language Skills	2503-2504
English 9	2501-2502

Accelerated English 9	2505-2506
English 10	2511-2512
Accelerated English 10	2513-2514
Cardinal Writing	2625
Cardinal Literature	2626
Creative Writing	2745
Argumentation & Persuasion	2711
Myths, Legends & Superheroes	2720
Adulting 101	2715
Crime, Suspense & Thrillers	2730
Survival of the Fittest!	2735
CIS Public Speaking SMSU	2710
AP Language & Composition 11	2613-2614
AP Literature & Composition 12	2623-2624
Introduction to Film	2725
Theater Arts	2740
Psychology and Film	2750

## ENGLISH LEARNERS

EL Entering Communication	2875-76-77-78
EL Cultures 1	2935-36-37-38
EL Science Concepts 1	2865-66-67-68
EL Emerging Communication 2.0	2885-86-87-88
EL Emerging Communications 2.5	2895-96-97-98
EL Cultures 2	2807-2808
EL Math B	2845-2846
EL Science Concepts 2	2925-2926
EL Science Concepts 2.5	2930-2931
English 9 Co-Taught	2507-08-09-10
ARCH	2881 (^2882)
American History 1 Co-Taught	6011-12-13-14

## HEALTH/PHYSICAL EDUCATION

Physical Education 9	3000
Physical Education 10A	3010
Physical Education 10B	3015
Health	3020
Improvement of Fitness & Perform.	3045 (^3046)
Lifetime Sports and Fitness	3055 (^3056)
Fitness and Games for Girls	3075
Adaptive PE Student Assistant	3109

## MATHEMATICS

Problem Solving Algebra	4005-4006
Algebra 1A	4011-4012
Algebra 1B	4021
Probability and Statistics	4022
Accelerated Geometry	4013-4014
Geometry	4073-4074
Algebra 2	4087-4088
Accelerated Algebra 2	4083-4084
Algebra 3 w/ Statistics	4093-4094
Accelerated Algebra 3 w/ Stats	4103-4104
CIS College Algebra SMSU	4131-4132
CIS Precalculus SMSU	4121-4122
AP Calculus	4134-4135-4136
Coding in Python	4165
Applied Technical Math	4163-4164

## MUSIC

Concert Band
Concert Choir
Concert Band/Choir
Varsity Band

Varsity Choir  
 Varsity Orchestra  
 Varsity Band/Choir  
 Varsity Band/Orchestra  
 Varsity Choir/Orchestra  
 Varsity Band/Choir/Orchestra  
 Cardinal Band  
 Cardinal Choir  
 Cardinal Orchestra  
 Cardinal Band/Choir  
 Cardinal Band/Orchestra  
 Cardinal Choir/Orchestra  
 Cardinal Band/Choir/Orchestra  
 Choralaires

## SCIENCE

Science Skills	5505-5506
Science 9	5501-5502
Accelerated Science 9	5511-5512
Biology	5531-5532
Accelerated Biology	5541-5542
Chemistry in the Community	5701-5702
College Prep Chemistry	5711-5712
AP Chemistry*	5733-5734-5735
Basic Physics	5751-5752
Physics	5741-5742
CIS General Physics SCSU*	5761-5762
AP Environmental Studies	5583
Astronomy	5561
Geology	5585
Meteorology	5590
Natural Disasters	5830
Microbiology*	5595
Zoology*	5625
CIS Introduction to Biology RWC	5571-5572
Forensic Science*	5840
Human Anatomy	5561-5562
Genetics	5611

## SOCIAL STUDIES

American History 1/Govt	6023-6024
American History 2	6027-6028
Accelerated American History 2	6037-6038
Economics	6030
World Geography	6110
World History	6120
Psychology 1	6080
Psychology 2	6085
AP Psychology	6091
Sociology/Family Life	6071
AP American History	6133-6134
Current Events	6061
Intro to Education	6130
Field Exp. For Intro to Ed.	6135
Intro to Law	6050

## TECHNOLOGY EDUCATION

Intro to Technology Education	3500
Intro to Engineering Design 1	3501
Intro to Engineering Design 2	3511
Principles of Engineering 1	3541
Principles of Engineering 2	3551
Civil Engineering & Architecture	3521-3522
Digital Electronics 1	3630

Digital Electronics 2	3635
Engineering Design & Development	3531-3532
Metals	3565 (^3566, 3567)
Woodworking 1	3570
Woodworking 2	3585 (^3586)
Robotics	3620
Automated Manufacturing	3640
Manufacturing & Production Careers	3650

## WORLD LANGUAGE

Spanish 1	6701-6702
Spanish 2	6711-6712
Spanish 3	6721-6722
Spanish 4	6731-6732
Spanish 5	6751-6752
Spanish for Native Speakers	6760 (^6061)
Spanish for Heritage Speakers	6762
Chinese 1	6901-6902
Chinese 2	6911-6912
Chinese 3	6921-6922

## COMMUNITY/SCHOOL PARTNERSHIP

Student Assistant	
Teacher Assistant	
Department Assistant	
Independent Study	
Cultural Assistant	
Driver's Education	7110
REACH	
PSEO CDL Prep for Written Test	7115
Kandiyohi CEO	6125-26-27-28

## SPECIAL EDUCATION

Academic Strategies	7601-02-03-04
Learning for Life	7045-46-47-48
Everyday Academics	7605-06-07-08
Fundamental Skills	7085-86-87-88
Community Work Experience	7075-76-77-78
Experiential Learning Center	7095-96-97-98
Developmental Physical Ed.	3105-06-07-08
Transition Work Exp/Goodwill	7754
Transition Studies	7757
Transition Acellus	7759
Transition Drivers Education	7758

## KEY:

\* Alternating year course

^ Repeat for credit with Department approval



# Four Year Planning Worksheet

Term 1	Term 2	Term 3	Term 4

Term 1	Term 2	Term 3	Term 4

Term 1	Term 2	Term 3	Term 4

Term 1	Term 2	Term 3	Term 4