## RED WING HIGH SCHOOL 8-12 COURSE CATALOG 2024-2025




## CREATIVE • COURAGEOUS • UNITED

## ADMINISTRATION

Martina Wagner, Superintendent
Joshua Fuchs, Principal
Robin Pagel, Assistant Principal -Graduating Classes of 25, 27, 29
Mandy Stokes, Assistant Principal - Graduating Classes of 26, 28
Paul Hartmann, Activities Director
COUNSELORS
Brian Buechner: Graduating Classes of 25, 27
Amber Pauley: Graduating Classes of 26, 28
Kara Gulbro: 8th Grade

BOARD OF EDUCATION
Terese Bjornstad
Jim Bryant
Nicole Buck
Rachel Marshall Schoenfelder
Anna Ostendorf
Pam Roe
Jennifer Tift


## TABLE OF CONTENTS

| How to use the Course Catalog | 5 |
| :--- | :--- |
| RWHS Graduation Requirements | 6 |
| General Information for students and families | 7 |
| Weighted Grades |  |
| Graduation Recognition |  |
| College Credit Opportunities |  |
| Precision Exams |  |
| Credit Accumulation |  |
| Awarding Credit via Assessment |  |
| College Entrance Requirements/Planning |  |
| College Visits, Military Service, Online Learning |  |
| Athletics and Activities | 10 |
| 8th Grade Courses | 12 |
| 9-12th Grade Planning Guide | 16 |



## GRADES 9-12 ACADEMIC DEPARTMENT COURSE OFFERING

Courses are listed by department below with the course number for registration and the page number where it can be found in this course catalog. Some courses are offered on alternating years. If a course is not offered for the upcoming school year, it will be offered the next.

Agriculture
17
311 Greenhouse Technology
315 Fish and Wildlife Management
320 Aquaculture
322 Companion Animals
306 Floriculture
307 Landscape Design
323 Large Vet Science
Art 19
350 Foundations of Art
352 Media Arts
353 Survey of Two-Dimensional Art
356 Survey of Three-DimensionalArt
354 Drawing and Painting I
355 Drawing and Painting II
362 Drawing and Painting III
357 Ceramics and Sculpture I
358 Ceramics and Sculpture II
361 Ceramics and Sculpture III
363 ^Advanced Placement Studio Art
Business Education 21
111 Introduction to Marketing and Business
113 Market Management
114 Marketing Education OJT
115 Sports \& Entertainment Marketing
423 Personal Business Law
402 Computer Applications
403 Advanced Computer Applications
404 Computer Science \& Programming
410 Accounting I
411 Accounting II
412 Accounting III
413 Accounting IV
455 Video Game Design **** New Course****

| Family and Consumer Science |
| :--- |
| 501 Family Living |
| 502 Child Psychology 1 |
| 526 Child Psychology 2 |
| 504 Interior Design |
| 508 Nutrition |
| 511 Introduction to Culinary Arts |
| 512 Advanced Culinary Arts |
| 513 International Culinary |
| 523 Baking \& Pastry Arts |
| 525 Flight Paths Capstone |
|  |
| Health/Physical Education |
| 215 Physical Education |
| 219 Health |
| 208 Individual \& Dual Sports I |
| 218 Individual \& Dual Sports II |
| $2 * * *$ |
| 214 Lifetime Fitness |
| 209 Intro Strength \& Fitness |
| 211 Team Sports |
| 212 Team Sports II Course**** |
| 223 Unified Sports |
| 818 Nursing Assistant |
|  |
| Industrial Technology Education |
| 540 Introduction to Woodworking |
| 541 Creative Woodcrafts |
| 542 Machine Woodworking I |
| 543 Machine Woodworking II |
| $1544 / 2544$ Cabinetmaking I |
| 1545/2545 Cabinetmaking II |
| 550 Independent Woodworking |
| 595 Industrial Enterprise Practicum |
| 1550/2500 Construction Tech |
| 555 Introduction to Metalworking |
| 556 Hot Metal Technology |
| 557 Metals Technology I |
| $1560 / 2560$ Metal Fabrication I |
| 563 Creative Metalwork |
| 565 Independent Machine Shop |

501 Family Living
502 Child Psychology 1
526 Child Psychology 2
504 Interior Design
508 Nutrition
511 Introduction to Culinary Arts
512 Advanced Culinary Arts
513 International Culinary
523 Baking \& Pastry Arts
525 Flight Paths Capstone
Health/Physical Education 28
215 Physical Education
19 Health
208 Individual \& Dual Sports I
218 Individual \& Dual Sports II **** New Course****
209 Intro Strength \& Fitness
211 Team Sports
${ }^{* * *}$ New Course ${ }^{* *}$
223 Unified Sports

Industrial Technology Education 31
540 Introduction to Woodworking
Creative Woodcrafts
543 Machine Woodworking II
1544/2544 Cabinetmaking I
1545/2545 Cabinetmaking II
550 Independent Woodworking
Industrial Enterprise Practicum

555 Introduction to Metalworking
556 Hot Metal Technology
557 Metals Technology I
560/2560 Metal Fabrication

565 Independent Machine Shop

| Industrial Technology Education (Continued) | Science 46 |
| :---: | :---: |
| 570 Introduction to Small Gas Engines | 803 Earth Science |
| 571 Automotive Service and Repair | 805 Biology |
| 572 Advanced Power Technology | 840 ^Advanced Placement Biology <br> 811 Chemistry Concepts |
| 1580/2580 ^Introduction to Engineering Design | 825 ^Survey of Chemistry |
| 1581/2581 ^Principles of Engineering | 830 Human Anatomy and Physiology |
| 1582/2582 ${ }^{\wedge}$ Civil Engineering and Architecture | 851 ^Advanced Placement Physics |
| 1583/2583 ^Digital Electronics | 827 ^College General Organic Chemistry 826 ^Advanced Placement Chemistry |
| 566 ^Engineering Drawings 1/Precision Measuring |  |
| 567 ^Intro to CNC Precision Machine Technology |  |
| 568 ^Intro to CAD/CAM +3D Printing | Social Sciences 49 |
| 569 ^ ^NC Precision Machining 2 | 921 World History <br> 905 United States History |
| Language Arts 37 | 906 ^Advanced Placement United States History |
| 600 Language Arts 9 | 912 Economics |
| 601 Honors Language Arts 9 | 915 World Geography |
| 607 Language Arts 10 | 913 World Religions |
| 614 Honors Language Arts 10 | 920 High School Psychology |
| 603 American Literature I | 922 ^College Psychology |
| 604 American Literature II | 910 ^Advanced Placement Economics |
| 606 ^Advanced Placement Literature and | 917 ^Advanced Placement Human Geography |
| Composition | 918 American Government and Politics |
| 608 ^Advanced Placement Language and |  |
| Composition | World Languages 52 |
| 621 Mythology | 640 German I |
| 1605 British Literature | 642 German II |
| 0619 Global Literature | $644{ }^{\wedge}$ German III |
| 623 Theater | 649 ^German IV |
| 629 Native Literature | 658 Spanish for Heritage Learners 650 Spanish I |
| Mathematics 41 | 652 Spanish II |
| 705 Intermediate Algebra | $654{ }^{\wedge}$ Spanish III |
| 710 Geometry | 656 ^ Spanish IV |
| 713 Honors Geometry | 659 ^Senior Spanish/College in the Schools Credit |
| 715 Algebra II | 665 Dakota Language \& Culture I |
| 716 ^Honors Algebra II | 666 Dakota Language \& Culture II |
| 720 ^Basic and Applied Statistics | 667 Dakota Language \& Culture III **New Course** |
| 722 ^Intro to Stats | Dakota Language \& Culture IV **Coming 25-26** |
| $724{ }^{\wedge}$ College Algebra |  |
| $725{ }^{\wedge}$ Honors Placement PreCalculus | Additional Credit Programs 55 |
| 729 ^Advanced Placement Calculus | 128 Winger Flight Path Internship |
| Music 44 |  |
| 200 Freshman Band |  |
| 202 Symphonic Band |  |
| 203 Concert Band |  |
| 205 Jazz Lab |  |
| 208 Choir 9 |  |
| 210 Bella Voce |  |
| 212 Concert Choir |  |

${ }^{\wedge}$ Indicates the course weighted for GPA

## To Our Students and Families

The Course Catalog contained in this book includes course descriptions for each of the possible offerings throughout the school year. Some courses may be withdrawn due to insufficient enrollment or the lack of sufficient staff to adequately teach the course.

An electronic format of this document is available at http://www.rwps.org or call 651-385-4600

## HOW TO USE THE COURSE CATALOG

## SPECIAL MESSAGE TO STUDENTS AND THEIR PARENTS/GUARDIANS

It is very important for you to carefully plan your future educational program. You will make many important decisions as you register, so please be sure to consider your interests, strengths and goals. If you would like assistance with course planning, please make an appointment with your counselor.

NOTE: Students are required to be enrolled in a minimum of six courses for credit each semester. You may register up to seven courses per semester.

## HOW TO USE THE COURSE CATALOG

1. Most of this guide consists of course descriptions. The courses are organized by departments.
2. Each course listed has its number for registration. Courses that are "Semester" are 18 weeks and earn one half credit towards graduation. Other courses are "Full Year" and generate one full credit.
3. Grade level requirements are indicated for each course.
4. Some courses have prerequisites. Check prerequisites carefully.
5. Be sure to read the course descriptions, grade level, and any prerequisites before selecting the class. Register by both course title and course number.
 registration


Prerequisite: Foundations of Art
Flight Path: BCA - 3D Art

Prerequisites are classes that need to be taken prior to registering for the listed class

This indicates that college credit is an option for the listed course. Other requirements may need to be met in order to earn the college credit such as additional registration through the collaborating school, passing placement tests, or passing an AP Test.

The Flight Path indicates this course is part of a series or recommended courses for a career field area. Consult the Flight Paths booklet to leam more about the Flight Paths

## RWHS Graduation Requirements

In order to be eligible for graduation, students must meet the following graduation requirements. The number of credits must be earned during grades $9-12$.:

| Subject Area Department | Required number of Credits | Course Requirements Options |
| :---: | :---: | :---: |
| Language Arts | 4 | -Language Arts 9 or Honors Language Arts 9 <br> -Language Arts 10 or Honors Language Arts 10 <br> -Two additional Credits of Language Arts Electives |
| Social Sciences | 3.5 | -World History <br> -US History <br> -World Geography or AP Human Geography and <br> -Economics or AP Economics <br> -American Government during the senior year. |
| Mathematics | 3 | -Intermediate Algebra or Honors Algebra <br> -Geometry or Honors Geometry <br> -Algebra II or Honors Algebra II |
| Science | 3 | -Physical Science or Honors Physical Science for Grad Classes 2023-26 <br> -Earth Science for Grad Classes 2027 and beyond <br> -Biology or AP Biology and <br> -Chemistry, physics or Honors Chemistry |
| Art | 1 | -Any Course in the Art or Music Department <br> -Interior Design <br> -Creative Metalworking or Creative Woodworking <br> -Theater |
| Health | 0.5 | Taken in 10th Grade |
| Physical Education | 0.5 | Taken in 9th Grade |
| Flight Paths Capstone | 0.5 | Taken in 11th Grade |
| Electives | 8-9 (depending on year of graduation) | Elective credits may be earned through any department. The number of elective requirements represents the minimum in order to graduate. |
| Total Credits | 24 |  |

## EQUITABILITY SCORING, GPA AND CLASS RANK

## Weighted Grades and Class Rank

Students taking classes in Advanced Placement, Project Lead the Way, College-in-the Schools, Concurrent Enrollment, World language at level 3 or higher, Honors and/or Pre-Advanced Placement have weighted grades using a 1.15 multiplier. Grade point averages (GPAs) are determined by dividing the total point value of course grades by the number of courses taken. Courses taken for a "P" (Pass) do not calculate in the GPA. Class rank will be reported on the transcript based on the Weighted GPA and an additional based on the unweighted GPA.

## Graduation Recognition

Graduation recognition is based on students' cumulative GPA after semester 1 of the senior year. Students are recognized by colored cords and will be identified in the graduation commencement program. A student must complete a minimum of half of the required credits at RWHS to be considered for graduating with Honors/Distinction/Highest Distinction.
*Only those students who have fulfilled all of the credits for graduation are allowed to participate in the graduation commencement ceremony.

|  |  |
| :--- | :--- |
| Graduating with HONORS | 3.66 |
| Graduating with DISTINCTION | 3.83 |
| Graduating with HIGHEST DISTINCTION | 3.93 |

## Weighted GPA

Graduating with HONORS 3.66
Graduating with DISTINCTION 3.83
Graduating with HIGHEST DISTINCTION 3.93

## COLLEGE CREDIT OPTIONS AT RWHS

## Advanced Placement

Advanced Placement (AP) is a College Board program that offers Minnesota high school students the opportunity to take rigorous, college-level courses and earn college credit while in high school. The content in AP courses is structured similarly to college coursework. Students who complete an AP course and take the end-of-course examination may qualify for college credit from postsecondary institutions, provided their score meets the institution's credit policy. These courses prepare students for further education and college admissions offices often look favorably on a history of AP coursework on the student transcript. All students taking AP courses are eligible to sign up to take the corresponding AP Exam in May. There is a cost to students choosing to take an AP exam.

## AP Courses at Red Wing High School

> AP Studio Art
> AP Language and Composition AP Literature and Composition AP Calculus

AP Biology<br>AP Chemistry<br>AP Physics

AP United States History
AP Economics
AP Human Geography

## College in the Schools (CIS) and Concurrent Enrollment Courses (CEC)

To be eligible for Concurrent Enrollment Courses students must complete the college application and pass the Accuplacer. The PLTW curriculum also offers end of course exams for college credit. On campus PSEO options allow students to earn high school and college credits at the same time. CIS courses require the school to pay an enrollment fee for each student enrolled in the college course. Donations to cover the cost would be appreciated (contact the teacher for more information).

## Articulated Agreements

Articulation Agreements are a process of preparing students for learning experiences with a focus on technical applications. Secondary students will be able to enroll in clearly identified courses that lead to specific post-secondary majors in technical fields.

Articulation Agreements will save students time and money by avoiding duplication between secondary and post-secondary programs. Articulation Agreements will result in agreements between Red Wing High School and selected post-secondary schools in Southern Minnesota that will provide curricula allowing advanced standing for students in post-secondary technical programs. A junior or senior student earning an "A" or "B" in these courses will receive an online certificate indicating the number of credits that will be honored by the technical or community college named on the certificate. This means there will be either a waiver of taking the course or the course will cost the student less when taken at the post-secondary level.

NOTE: A freshman or sophomore student who registers and completes the courses listed will need to take an exit exam/assessment during his/her junior or senior year to perform the necessary competencies before receiving the certificate. See your instructor for details on this program.

RWHS Courses that can earn college credit listed by department
(A): Articulated Agreement
(CE): Concurrent Enrollment

Agriculture

- Large Vet Science (A)

Business

- Accounting II (A)
- Introduction to Marketing and Business (A)
- Introduction to Programming (A)
- Market Management (A)
- Advanced Computer Applications (A)
- Computer Applications (A)
- Information Processing II (A)

World Languages

- German IV (CE)
- Spanish V (CE)

Family and Consumer
Sciences

- Advance Culinary Arts (A)
- Child Psychology (A)
- Family Living (A)

Mathematics

- Basic and Applied Stats (CE)
- Intro to Stats (CE)
- College Algebra (CE)
- Honors Precalculus (CE)
- Calculus (CE)

Science

- Organic Biochemistry (CE)

Social Sciences

- College Psych (CE)

Industrial Technology

- Introduction to Engineering

Design (A)

- Principles of Engineering (A)
- Hot Metal Technology (A)
- Advanced Power (A)
- Civil Engineering and Architecture (A)
- Digital Electronics (A)
- Engineering Drawings 1 Precision Measuring (CE)
- Introduction to CNC Precision Machining Technology (CE)
- CNC Precision Machining (CE)


## Post Secondary Enrollment Options (PSEO)

Eligible sophomore, juniors and seniors at Red Wing High School may enroll at Minnesota post-secondary institutions on a full or part-time basis. The purposes of the program are to promote rigorous education pursuits and to provide a wider variety of options for students. A student who takes college or technical courses for high school credit will have the cost of tuition, books and materials paid for by the State of Minnesota. See your counselor for additional information and to apply and complete the required PSEO contract. PSEO courses taught outside of Red Wing High School will not be weighted.

## Credit Accumulation

Credit for courses taken through educational programs other than Red Wing High School will be granted and included on the transcript with Counselor approval. Minnesota State law restricts Post-Secondary Enrollment Options to a maximum of a full credit load, which are 7 classes per semester.

## Awarding Credit via Assessment: Student Guidelines for Testing out of a Class

A student may earn credit by assessment. For full guidelines to the process see a counselor. The process must begin at least a full quarter prior to the start of the class for which credit is requested. All portions of the assessment must be completed within one quarter period. A student may attempt to test out only once for each course and may not test out of a course in which a grade was previously received, including an incomplete, or for a course which was dropped.

## College Entrance Requirements/Planning

Planning for college starts with course selections and grades earned in $8^{\text {th }}$ grade. College preparatory course requirements vary by college. Admission to a college depends on how selective the college is in admitting students. The primary factors for admission to a four-year college are class rank, courses taken, and college entrance exam (ACT or SAT) scores. Also considered are school/community activities and leadership experiences.

Community and technical colleges may not have specific entrance requirements but placement tests in math, reading and writing are required as part of the registration process. The demonstration of skills in these areas determines the level of courses a student is allowed to take.

## Admission for Minnesota Colleges

```
MN State University Admission Requirements
English-4 Years
Math - 3 Years (U of M requires 4 years)
(Algebra, Geometry, Alg II)
Science - }3\mathrm{ Years
(1 yr Biology, 1 yr. Phys. Science/Earth Science, 1
Chemistry or Physics with labs)
Social Science - 3 Years
World Language - }2\mathrm{ Years
(2 years of same world language)
Suggested Electives - }1\mathrm{ year
(Fine Arts or World Culture)
```


## College Visits

College admissions and career representatives also meet with students in the Courtyard Cafe during the lunch period throughout the school year. Visits are announced during the morning announcements.

## Military Service

It is essential to graduate from high school to enter military service. The services have many good training programs for qualified individuals, yet all require a high school diploma.

## On-Line Learning

Students enrolling in an on-line learning course must meet the district requirements and procedures. See your Counselor for further information. Only courses pre-approved by the Minnesota Department of Education are accepted.

## ACTIVITIES

## NCAA Eligibility

The NCAA is the governing body of many intercollegiate sports. Initial eligibility standards help ensure you are prepared to succeed in school.

## Core Courses

- 16 core courses are required for any student first entering any Division I \& Division II college or university. See the chart below for the breakdown of this 16 core-course requirement.
- Present a qualifying test score on either the ACT or SAT test directly from the testing organization.
- Courses must be NCAA approved courses. See your counselor or the NCAA website for information.


## Division I

16 Core-Course Rule
16 Core Courses:
4 years of English.
3 years of mathematics (Algebra I or higher).
2 years of natural/physical science (1 year of lab if offered by high school).
1 years of additional English, mathematics or natural/ physical science.
2 years of social science.
4 years of additional courses (from any area above, foreign language or non doctrinal religion/philosophy

## Division II

## 16 Core-Course Rule

## 16 Core Courses:

3 years of English.
2 years of mathematics (Algebra I or higher).
2 years of natural/physical science (1 year of lab if offered by high school).

3 years of additional English, mathematics or natural / physical science.

2 years of social science.
4 years of additional courses (from any area above, foreign language or non doctrine religion/philosophy.

## NAIA Eligibility

NAIA Eligibility Center at PlayNAIA.org determines eligibility of all first-time NAIA student-athletes. The NAIA Eligibility Center, at PlayNAIA.org, is responsible for determining the NAIA eligibility of first-time student-athletes. Students must have their eligibility determined by the NAIA Eligibility Center, and all NAIA schools are bound by the center's decisions.


## Co-Curricular Activities

Red Wing offers many co-curricular opportunities for its student body. These activities provide at least three educational benefits for students:

1. They allow students to pursue an interest and develop skills.
2. They are well-guided activities that utilize student time in a worthwhile manner.
3. They provide opportunities for students to develop new friendships.

The school would like all students to participate in at least one activity during the year. Following is the list of activities and clubs offered at Red Wing High School (subject to change):

- Aerie
- Anime Club
- Black Student Union (BSU)
- Chess club
- Dramatics
- Circle of Friends
- Environmental Advocacy Club
- Fall/Spring Play
- Fellowship of Christian Athletes (FCA)
- Future Farmers of America (FFA)
- Gender Sexuality Alliance (GSA)
- Health Occupations Students of America (HOSA)
- Interact
- International Club
- Key Club
- Knowledge Bowl
- Math League
- Musical Organizations: Ovation, Jazz Band
- Musical
- Native American Student

Association (NASA)

- National Honor Society (NHS)
- Performing Arts Club
- Robotics
- Science Olympiad
- Skills USA
- Speech Team Competition
- Student Council
- Student Ambassadors
- Sieve and Sand Literary Magazine


## Athletic Activities

Red Wing is a member of the Big Nine and Region IAA. Various athletic activities are available on the interscholastic level. Students who have an interest in participating should check with the coach who is assigned to direct the activity. Following is a list of athletic activities offered at Red Wing High School.

| FALL | WINTER | SPRING |
| :--- | :--- | :--- |
| Cheerleading | Basketball - Boys | Baseball - Boys |
| Cross Country - Boys | Basketball - Girls | Golf - Boys |
| Cross Country - Girls | Cheerleading | Golf - Girls |
| Football | Gymnastics - Girls | Softball - Girls |
| Soccer - Boys | Hockey - Boys | Tennis - Boys |
| Soccer - Girls | Hockey - Girls | Track - Boys |
| Swimming/Diving - Girls | Swimming/Diving - Boys | Track - Girls |
| Tennis - Girls | Alpine Ski (Co-op with |  |
| Volleyball | Northfield) |  |

High School activities administered by Community Education and Recreation:

- Ultimate Frisbee
- Trap Team



## 8TH GRADE REQUIRED COURSES

Students must take a full year of language arts, science, social studies, and math in $8^{\text {th }}$ grade along with a semester of physical education and the Introduction to Flight Paths/Perspectives Class. Students may elect to take band and/or choir, Spanish I or German I. After required and elective courses have been selected, a student's schedule will be filled with elective academy courses.

LANGUAGE ARTS 8

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0610 | Full Year | 8 | None |

Language Arts-8 explores our world in the areas of listening, speaking, reading, writing, and the use of media. Literature units may include poetry, short stories, novels, plays, nonfiction, and articles which include diverse voices and differing viewpoints. Writing mechanics and procedures are taught following the Minnesota State Standards at the eighth grade level.

## HONORS LANGUAGE ARTS 8

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0618 | Full Year | 8 | None |

Students are introduced to the skills, strategies, and assessments to prepare students for the AP English experience at the high school. Students will write more fluently and with more complexity, read longer and more complicated texts, use and detect in texts more sophisticated grammatical structures, and analyze a text for multiple literary elements. Students are challenged to practice higher-level thinking skills individually, in small group settings, and whole class participation. This course is reading and writing intensive.

## PHYSICAL SCIENCE

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| $1807 / 2807$ | Full Year | 8 | None |

This is a year-long course in introductory physical science. The purpose of this course is to give all students an introductory knowledge of physics, chemistry, and to offer insight into the means by which scientific knowledge is acquired. The course is designed to serve as a solid foundation for students taking later courses in biology, chemistry and physics. First semester covers scientific method, motion, forces, work, power, machines energy, and waves. Second semester covers matter, atomic structure, periodic table, chemical bonds and reactions.

GLOBAL STUDIES

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0902 | Full Year | 8 | None |

Students in this course will learn about how people live, work, and play in other nations around the world. Students will be exposed to several core concepts, such as human geography, population and movement, economic systems, government systems, and culture. Students will apply the tools of geography and the core concepts to the nations they study. Students will not only examine the physical geography of a region, but also the human elements that help create the unique global world we live in today.

LINEAR ALGEBRA

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0740 | Full Year | 8 | None |

This course leads to intermediate algebra which then leads to Geometry. This course is designed to follow the 8th grade MN Math Standards. Students will learn to read, write, compare, classify and represent real numbers, and use them to solve varlus problems. Students will then learn the concept of functions and distinguish between linear and nonlinear functions. A geometry and data analysis component is introduced including the Pythagorean Theorem, perpendicular and parallel lines and scatter plots.

## ALGEBRA I

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0706 | Full Year | 8 | None |

This course leads directly to geometry. This course is designed to develop the MN State Standards in mathematics for 8th grade math and the 9th grade algebra strand. Properties and concepts of number systems, such as natural, whole, integer, rational, and real; Solving linear equations and inequalities; Working with polynomials; Concepts of relation and function; Graphing equations in two variables, solving systems of equations in two variables; General methods of solving quadratic equations.

8TH GRADE REQUIRED ELECTIVE COURSES

## PHYSICAL EDUCATION

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0200 | Semester | 8 | None |

It is the philosophy of the Health and Physical Education Department to set up learning experiences and situations that will enable the student to develop a student's whole being to the maximum of their ability. Through these learning experiences and situations, the students will develop skills, learn to solve problems, use their imaginations, be creative, analyze, interpret and react in an intellectually and socially satisfying manner.

## PERSPECTIVES

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0277 | Quarter | 8 | None |

As students come into high school, social emotional skills and learning how to interact with one another is very important. These skills will benefit students not only throughout their high school career but into adulthood. We will also explore where all students come from and how that builds how they see the world. This course will include community volunteers, outside resources, and curriculum that asks every student to discover their town, their world, and themselves in different ways

## INTRODUCTION TO FLIGHT PATHS

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0277 | Quarter | 8 | None |

Flight Paths is Red Wing Public School's version of career pathway planning with the goal that students make a more informed choice on their plans for after graduation whether they continue their education, go straight into the workforce, enter the military, or some combination.

This required course for 8th grade students is an introduction to the 16 different career fields. Students will learn the skills related to writing a resume, an application, and conducting an interview in addition to other skills such as Child Labor Laws and essential professional skills. This course is paired with Perspectives.

## 8TH GRADE MUSIC ELECTIVES

Music is a performing art. There is very little value in learning how to play or sing if one does not experience opportunities to use playing and singing skills in performance. Thus, the value the individual student gains from these courses is to a large degree directly related to the successful performance of the total group. To successfully plan meaningful performances, the instructors must be able to count on student attendance at concerts that may fall outside of the school day. These performance dates will be announced at the beginning of the school year. In the rare instance when attendance is impossible, an alternative activity must be pre-arranged to achieve full credit.
Students must stay in Band or Choir for the full year.
Students wishing to take both Choir and Band should register for 0209

BAND 8

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0201 | Year | 8 | Band 7 |

This class provides opportunities for students to broaden and deepen their skills, appreciation, and understanding of music through practical application. The band rehearses every other day and participates in three required concerts each year. Students will have a regularly scheduled lesson, which will focus on individual needs and characteristics of their specific instruments. This course alternates with choir enabling a student to participate in both programs if they wish. A jazz band and other small ensembles are often formed with students from this class.

## CHOIR 8

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0207 | Year | 8 | None |

This class involves an exploration of many musical styles. Students work for well-developed tone production while expanding ranges through challenging music and individual lessons. Strong rehearsal involvement is expected; resulting in a solid, professional concert performance. Two required concerts are performed each year. Eighth grade students wishing to sing in a choir that are not also in band should register for this course.

8TH GRADE WORLD LANGUAGE ELECTIVES

## GERMAN I

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0640 | Year | $8-12$ | None |

This is the foundation of the study of this language. The first semester teaches the sound system of the German language and is an introduction to the culture of German speaking countries. The vocabulary deals with personal introductions, vacationing, food, family, numbers, and classroom items. Semester two continues with vocabulary concerning shopping, clothing, simple mathematics, and geography. Short conversations in German are practiced and presented with classmates.

## SPANISH I

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0650 | Year | $8-12$ | None |

This is the foundation of the study of this language. This course focuses on the sound system of the Spanish language and is an introduction to the culture of Spanish speaking countries. The vocabulary deals with personal introductions, numbers, classroom items, activities and family.
*If students want to be eligible for Spanish V class at the high school they MUST begin Level I Spanish in 8th grade.

## 8TH GRADE ACADEMY ELECTIVES

The following courses are each a quarter long and will be combined with another quarter class to fill a vacant semester on the student's schedule. Students should register for their preferred academy course though an alternative may be placed on their schedule depending on availability.

ANIMAL SCIENCE 8

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
|  | Quarter | 8 | None |

In Animal Science, students will be introduced to livestock and their influence in agriculture and the economy.

ART 8

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0225 | Quarter | 8 | None |

In Art 8, students will be introduced to both two dimensional and three dimensional art. Two dimensional art includes, but is not limited to drawing and painting. Three dimensional art will include ceramics and sculpture.

## BUSINESS 8

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0256 | Quarter | 8 | None |

Students will be introduced to the foundations of Business through accounting, sales, and personal finances.

## METALS 8

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0247 | Quarter | 8 | None |

In Metals, students will begin working with metal including safety, metal technology and hot metals.

## WOODWORKING 8

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0246 | Quarter | 8 | None |

In Woodworking, students will be introduced to working with wood including safety, creative woodworking, and machine woodworking

## PLANT AND SOIL SCIENCE 8

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0265 | Quarter | 8 | None |

In Plant Science, students will be introduced to plants and their influence in agriculture and the economy.

## CULINARY ARTS 8

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0235 | Quarter | 8 | None |

In Culinary Arts, students will explore nutrition, food preparation, and the food service industry.

## GATEWAY TO TECHNOLOGY 8

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| 0575 | Quarter | 8 | None |

Gateway to Technology focuses on showing - not telling - students how engineers use technology to solve everyday problems. Gateway's primary focus is on developing stronger STEM skills. The course contains Automation and Robotics using RobotC and Vex Robotics kits, CAD: Computer Aided Design, 3D printing, Air Glider Lab and an introduction to Mechanical and Architectural Drawing.

Grade 8 Study Hall

| Course <br> number | Course <br> Length | Grade | Prerequisite |
| :--- | :--- | :--- | :--- |
| $1990 / 2990$ | Semester | 8 | None |

## Grades 9-12 Course Planning Guide

The samples below indicate a non-accelerated track for the core subject areas. Students who elect to take some math or science classes earlier than indicated, Honors or AP Courses may take different courses than the examples given below. The Math and Sciences courses in grades 9-11 and English and Social Studies courses in grades 9-10 indicate a whole year course. Each other section indicates a semester length course.

| $9^{\text {th }}$ Grade |  |  |
| :--- | :--- | :--- |
| Course |  |  |
| Content |  |  | Course Name | Course |
| :--- |
| Number |$|$| English* $^{*}$ | Lang 9 |  |
| :--- | :--- | :--- |
| Math $^{*}$ | Int Algebra |  |
| Science | Earth Science |  |
| Social <br> Studies | World History | 921 |
| Gym 9 |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |


| 10 |  |  |
| :--- | :--- | :--- |
| Content Grade |  |  |
| Course Name | Course <br> Number |  |
| English* $^{*}$ | Lang 10 |  |
| Math $^{*}$ | Geometry |  |
| Science* $^{*}$ | Biology | 805 |
| Social <br> Studies* | US History | 905 |
| Health |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |


| $11^{\text {th }}$ Grade |  |  |
| :--- | :--- | :--- |
| Course <br> Content | Course Name | Course <br> Number |
| English |  |  |
| English |  |  |
| Math* $^{\text {Science* }}$ | Algebra II | Chemistry |


| Course <br> Content | Course Name | Course <br> Number |
| :--- | :--- | :--- |
| English |  |  |
| English |  |  |
| US Gov | US Government | 918 |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |
| Elective |  |  |

*     - Indicates an alternate course option if choosing to take an accelerated series of courses.

Courses in the next sections are listed by department. Courses that are a part of a Flight Path or related to a Flight Path have the matching icon next to them. See the Flight Paths Booklet for more information.

HAS - Health Agriculture and other Sciences
BCA - Business, Communications, Arts and Entrepreneurship
MET - Manufacturing, Engineering, and Technology
HGE - Human Services, Government, and Education

## GREENHOUSE TECHNOLOGY

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0311 | Semester | $10-12$ | 0.5 |

Prerequisite: None
Flight Path: HAS - Plant Science

This course focuses on production systems and management practices in container and field nurseries. Emphasis on irrigation, fertilization, pruning and other cultural practices that result in high quality plant material and healthy root systems. Learn about harvesting, storing and shipping. Examine differences between container and field production. Explore current issues and trends in nursery production in Minnesota. This course will be using the greenhouses throughout the entire course. This course is offered every year.

FISH AND WILDLIFE MANAGEMENT
(Offered 25-26)

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0315 | Semester | $9-12$ | 0.5 |

Prerequisite: None
Flight Path: HAS - Animal Science 2

Students will study fish and wildlife to gain an understanding of the ecological, physical and environmental concepts pertaining to wildlife management. Minnesota mammals, birds, fish and insects species will be introduced. Students will have the opportunity to study the ecology of wildlife and make decisions on appropriate means to manage these populations. As a part of ongoing research study, the class will construct and establish wood duck houses in the Cannon Bottoms and surrounding wetlands.
This course is offered every-other year.

## AQUACULTURE

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| $0320 / 0321$ | Semester | $9-12$ | 0.5 |
| Prerequisite: None |  |  |  | Flight Path: HAS - Animal Science $2 . \quad$.

In this course students will study specialized agricultural production relative to aquacultural science. Students will develop management techniques necessary to operate warm and cold-water 1,500 gallon recirculating systems containing rainbow trout and tilapia. Students will optimize the efficiency of the recirculating product system in an effort to produce the highest yielding crop. Additional topics of aquacultural science, production and management will be introduced and additional species of fish will be considered for growth. Advanced concepts include bio-filtration, water reconditioning and testing, water quality and system design. This course is offered every year.

COMPANION ANIMALS (Offered 25-26)

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0322 | Semester | $10-12$ | 0.5 |
| Prerequisite: None |  |  |  |
| Flight Path: HAS - Animal Science 1 |  |  |  |

Are you interested in small animal care? Through hands-on labs and guided study, learn how to apply animal anatomy, genetics, reproduction, behavior, nutrition, and health to cats, dogs, rabbits, horses and other companion animals. Basic veterinary procedures and jargon will also be introduced. If you are interested in a career with animals, then this is the course for you!
This course is offered every-other year.

## AGRICULTURE 9-12

FLORICULTURE

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0306 | Semester | $10-12$ | 0.5 |
| Prerequisite: None |  |  |  |
| Flight Path: HAS - Plant Science |  |  |  |

Students will study the production and practical aspects of floral crop management techniques for selected floral crops commonly grown in the commercial greenhouse industry. This course will also prepare students to raise and manage spring annual bedding plants, floral arrangements, and foliage plants for home use and ornamental purposes. Areas such as greenhouse management, floral design, plant physiology, and careers in the floriculture industry will be emphasized. Upon completion of course, students will be able to apply these management techniques on their own home landscapes, potted plants, interior plants, and received floral arrangements.
This course is offered every-other year.

## LANDSCAPE DESIGN

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0307 | Semester | $10-12$ | 0.5 |
| Prerequisite: None |  |  |  | Flight Path: HAS - Plant Science $\quad$.

This is an introductory course that will introduce you to the wonderful world of plants, gardening, and landscaping. A portion of the class will be devoted to landscaping and the class will be responsible for a landscaping project. You will also learn plant identification as well as plant needs and parts. This is definitely a hands-on course that will require you to explore many concepts through discovery and self -teaching.
This course is offered every-other year.

## LARGE VET SCIENCE

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0323 | Semester | $10-12$ | 0.5 |
| Prerequisite: None |  |  |  | Flight Path: HAS - Animal Science 1.

*College Credit option possible

Take a walk on the wild side and receive a more in-depth understanding of animal care and scientific procedures. Through hands-on labs and guided study, learn how to apply animal anatomy, genetics, reproduction, behavior, nutrition, and health to livestock. Basic veterinary procedures and jargon will also be introduced. If you are interested in a career with animals, then this class is for you.
This course is offered every-other year.


All the courses in this department may be used to help fulfill the one credit of art that is required for graduation. Throughout the art program at Red Wing High School, students develop assessment portfolios as a means to demonstrate proficiency in the following areas:

- Ability to intentionally use media and appropriate processes with skill, confidence and sensitivity.
- Ability to create artworks which use elements and principles of art to solve visual arts problems.
- Ability to evaluate personal artwork and the artwork of others verbally and through writing.
- Ability to analyze relationships of works of art to one another in terms of history, aesthetics, and culture and use conclusions to inform their own art making.
- Ability to compare materials and processes of art with those of other humanities or science disciplines.


## FOUNDATIONS OF ART

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0350 | Semester | $9-12$ | 0.5 |
| Prerequisite: None |  |  |  | Flight Path: None $\quad . \quad$.

All visual art is based on the skill of drawing that can be learned by anyone willing to take the time to practice. Learning to draw is dependent on the artist learning to carefully observe life and the world they live in. This course uses a method which develops right brain functions considered essential for creative expression, problem solving and visual communication. This course is recommended for the student with a general or in-depth interest in visual arts communication. A portfolio collection of student work is started in Foundations of Art and is developed throughout the art courses at the high school.
This course is a prerequisite to all art courses except Media Arts.


## MEDIA ARTS

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0352 | Semester | $9-12$ | 0.5 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

This course is designed to explore the basic concepts of digital art through the use of digital photography, videography, and editing software while learning and applying the elements and principles of design. Students will learn how to create original art utilizing the computer to manipulate their own photographs and video footage. In addition, students will analyze several forms of visual media to learn how graphics are used to convey meaning now and throughout history.

SURVEY OF TWO-DIMENSIONAL ART

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0353 | Semester | $9-12$ | 0.5 |
| Prerequisite: Foundations of Art |  |  |  |
| Flight Path: BCA - 2D Art |  |  |  |

Survey Art 2-D is required of all students preparing to enroll in Drawing and Painting. This survey course provides the student an opportunity to become familiar with a variety of 2-D media to enhance their compositional skills, creative imagination, and knowledge of art history. Students will have 2-D art experiences in the areas of acrylic painting, water color, collage, printmaking, and a variety of drawing media.

## ART 9-12

DRAWING AND PAINTING

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| Level 1-0354 <br> Level 2-0355 <br> Level 3-0362 | Semester | $10-12$ | 0.5 |

Prerequisites:
Foundations of Art and Survey of 2D Arts
Flight Path: BCA - 2D Art

In this course, students will focus on developing their own artistic identity by studying art history and creating original artworks with a variety of 2D media. This course will encourage students to grow as an artist through challenges with various media and assignments in a wide range of topic areas. Drawing and Painting II and III will continue an in-depth study of the materials and content offered in the prior courses.


## CERAMICS AND SCULPTURE

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| Level 1-0357 <br> Level 2-0358 <br> Level 3-0361 | Semester | $10-12$ | 0.5 |
| Prerequisites: <br> Foundations of Art |  |  |  |
| Flight Path: BCA - 3D Art |  |  |  |

The study of ceramics and sculpture provides the student with the opportunity to learn basic processes through studio assignments, group critique processes, and historical and aesthetic appreciation. Wheel throwing, clay hand building, and additive and subtractive methods will be explored along with sculpture processes. With teacher approval, highly committed students will continue an in-depth study of the materials and content offered in Ceramics and Sculpture II and III.
^ADVANCED PLACEMENT STUDIO ART-weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0363 | Full Year | $11-12$ | 1 |

Prerequisite: Foundations of Art, Instructor Approval
Flight Path: BCA - 3D Art
*College Credit option possible
The Advanced Placement Studio Art program enables highly motivated students to do college-level work while still in high school. To be eligible for advanced study, the student must demonstrate art background competencies proving them able to succeed in the selected in-depth area of art. Students in this course work very independently and intensely on a large 2D portfolio to be submitted to the College Board in May for rating as an AP Art Portfolio. Students may earn college credit depending on portfolio score.
This course is offered every-other year.

## INTRO TO MARKETING \& BUSINESS

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0111 | Semester | $9-12$ | 0.5 |

Prerequisite: None
Flight Path: BCA - Foundation, BCA - Marketing, BCA - 2D Arts, BCA - 3D Arts, BCA - Band, BCA - Choir, HGE - Foundation

Intro to Marketing is a hands-on course designed as an exploratory class for all students who have an interest in pursuing a business or marketing related career. Students will learn about a variety of introductory marketing concepts including: the marketing functions, market research techniques, the components of the marketing mix, and new product development. Emphasis will also be placed on the promotional mix, the proper steps of the selling process, student sales presentations, ethics in selling, and career opportunities in sales. Finally, areas covered in advertising will include: advertising techniques, ethics, and different forms of print and broadcast media. Practical experience will be integrated with classroom instruction by having students create advertising layouts and campaigns.

MARKETING EDUCATION ON-THE-JOB TRAINING

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0114 | Semester | 12 | 0.5 |

Prerequisite: Enrollment in a Business or Marketing Course and Instructor Approval

Flight Path: None

Students will take what they are learning in the classroom and apply skill sets in their job setting. Students are required to average 10 hours/week throughout the semester. Evaluations from the student and employer are conducted at the beginning and the end of the semester.

## SPORTS \& ENTERTAINMENT MARKETING

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0115 | Semester | $10-12$ | 0.5 |
| Prerequisite: Enrollment in a Business or Marketing <br> Course and Instructor Approval |  |  |  |
| Flight Path: BCA - Marketing |  |  |  |

This course will provide an in depth analysis into the world of sports and entertainment marketing. Students will learn the basic functions of marketing and how these functions are applied in the sports and entertainment industry. Students will also create and market a new attraction for a theme park. Topics include: athlete/celebrity endorsement, licensing of merchandise, corporate sponsorship, non-traditional/extreme sports, promotion and public relations. Students will gain a perspective into music/movie marketing, reality television and current trends in entertainment.

## MARKET MANAGEMENT

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0113 | Semester | $11-12$ | 0.5 |
| Prerequisite: Intro to Marketing |  |  |  |
| Flight Path: BCA - Foundation, BCA - Marketing, <br> BCA - 2D Arts, BCA - 3D Arts, BCA - Band, <br> BCA - Choir, HGE - Foundation |  |  |  |

Business Management and Financial management are the emphasis of this class. Technology is used to assist with financial decision-making and communications. Students in this class can also opt to receive credit for part-time employment. Students in this class will also have the opportunity to participate in the Marketing Club (DECA) while being enrolled in this class. Highly recommended for students thinking about a Marketing or a Business Administration major in college.
This course is offered every-other year

PERSONAL AND BUSINESS LAW (Offered 25-26)

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0423 | Semester | $11-12$ | 0.5 |

Prerequisite: None

Flight Path: BCA - Foundation, HGE - Government

This in-depth course offers an introduction to criminal law, civil law, contractual law, law of agency, real property, and wills. During this course, the students will become familiar with legal documents and legal terminology. Students will also learn to recognize where our legal system fits into our economic and social culture.
This course is offered every other year.
COMPUTER SCIENCE AND PROGRAMMING

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0404 | Semester | $10-12$ | 0.5 |

Prerequisite: Computer Applications
Flight Path: BCA - Data Entry and Processing, MET - Foundation, MET - Transportation

This course is an introduction to computer science and software engineering for any student interested in developing software applications, not just using them. Through a project-oriented approach, students will explore a variety of programming systems and languages to create interactive applications and systems. By collaborating in a hands-on environment, students will learn problem solving, software design, debugging strategies, and the foundations of computer science (coding, data structures, procedures, and algorithms). Students will work on projects (both individual and team) in the areas of graphics, games, animation and art, electronics systems, interactive fashion, using open-source software tools.

## COMPUTER APPLICATIONS

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0402 | Semester | $9-12$ | 0.5 |
| Prerequisite: None |  |  |  |
| Flight Path: BCA - Foundation, <br> BCA - Data Entry and Processing |  |  |  |

*College Credit option possible
This course explores ways in which technology can be used with curriculum integration. With an emphasis on learning technology, students will identify emerging trends in technology through applications in word processing, database, spreadsheets, multimedia, internet/web and desktop publishing. The course assignments and projects will expose students to topics within the seven core academic areas and the career and technical education programs.

ADVANCED COMPUTER APPLICATIONS (Offered 24-25)

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0403 | Semester | $9-12$ | 0.5 |
| Prerequisite: Computer Applications |  |  |  |
| Flight Path: BCA - Data Entry and Processing |  |  |  |

*College Credit option possible
This course is for students who want to enhance their knowledge of computer applications through hands-on activities. The course will reinforce and expand upon the concepts learned in the Computer Applications Course. Topics and graduation standards requirements will include integrating database and spreadsheet files into word processing files, advanced word processing concepts, advanced database and spreadsheet concepts, advanced graphics applications, and multimedia presentations. Some projects will incorporate the use of the Internet; other projects will include the introduction to WEB Page design.
This course is offered every-other year

## ACCOUNTING I

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0410 | Semester | $9-12$ | 0.5 |

Prerequisite: None
Flight Path: BCA - Data Entry and Processing,

This is an introductory course in a common method of keeping financial records. Students learn the fundamentals of double-entry accounting to enable them to continue the study of accounting or to handle their personal record keeping. The accounting cycle in its simplest form is covered along with some banking and cash-handling activities. Special journals are introduced late in the course. Accounting I concepts and a practice set are also completed on the computer.

## ACCOUNTING II

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0411 | Semester | $9-12$ | 0.5 |
| Prerequisite: Accounting I |  |  |  |
| Flight Path: None |  |  |  |

## *College Credit option possible

The focus of the course turns from a service business to a merchandising business with the continuing study of special journals. Ten-column worksheet, adjustments, financial statements, and payroll procedures are covered. Additional areas covered include: accounting for cash funds, accounting for depreciation, uncorrectable accounts receivable, inventories, and notes payable and receivable. Accounting concepts may be completed on the computer. To fulfill the graduation standard, students will be asked to complete two tasks that might include oral/written presentations.

## ACCOUNTING III

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0412 | Semester | $11-12$ | 0.5 |
| Prerequisite: Accounting II |  |  |  |
| Flight Path: None |  |  |  |

The purpose of advanced accounting is primarily twofold: (1) to prepare those students who are pursuing a career in accounting and/or business after college; (2) to broaden the scope of an individual who may choose an entry-level accounting position. This course will provide an in-depth study of material previously covered in the beginning accounting class and will introduce new concepts and procedures in financial and managerial accounting. Topics to be covered are: a review of beginning accounting concepts and career possibilities, notes and interest, accrual/deferrals, partnerships, and departmentalized accounting.

## ACCOUNTING IV

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0413 | Semester | $11-12$ | 0.5 |
| Prerequisite: Accounting III |  |  |  |
| Flight Path: BCA - Accounting |  |  |  |

Accounting IV is the second semester course following accounting III for students who plan to pursue a career in accounting and/or business after college. It is also extremely important for those students who plan to seek employment in an introductory accounting position. Topics to be covered are: reinforcement of topics from Accounting III, inventory control, voucher system, corporation accounting, cost accounting with emphasis on merchandising and manufacturing businesses, and management accounting with emphasis on budget planning and analysis and decision making.

## BUSINESS EDUCATION 9-12

Video Game Design

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0455 | Semester | $9-12$ | 0.5 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

Overwatch, Mario Kart, League of Legends,
Madden?!? Building video games as a career!
Absolutely! All of those designers had to start somewhere and for many students this is the first step on that journey. In California alone there are more than 500 game development studios and 20,000 individuals who make their living creating games. Salaries in the gaming industry are higher than the national average, and a designer with 10+ years of experience can make over $\$ 100 \mathrm{k}$ annually.

The Video Game Design program is a one-semester course that will teach you the hard and soft skills needed to start a career in game development. Skills gained include how to draft game design documents, how to work on teams, and how to use game design software.

FAMILY AND CONSUMER SCIENCE 9-12

FAMILY LIVING

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0501 | Semester | $9-12$ | 0.5 |

Prerequisite: None
Flight Path: HGE - Human Services
*College Credit option possible
In this course, students will develop an understanding of relational dynamics with family members, friends, classmates, co-workers, and those encountered throughout the lifespan. During the semester students will discuss values, goals, and self-understanding in relation to others and how to build strong healthy relationships. This class is recommended for students who are interested in careers working with families in family \& community services.

CHILD PSYCHOLOGY I

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0502 | Semester | $10-12$ | 0.5 |
| Prerequisite: None |  |  |  | Flight Path: HGE - Human Services $\quad . \quad$.

This course provides a study of physical, intellectual and social-emotional child development from conception through toddler age. Students will discuss and observe strategies for providing age-appropriate, safe and educational learning environments. Hands-on learning with Baby Think It Over simulators will give students an opportunity to experience the day to day needs of an infant. This class is recommended for students who are interested in careers working in education, child care and pediatric medicine.

## CHILD PSYCHOLOGY II

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0526 | Semester | $10-12$ | 0.5 |
| Prerequisite: Child Psychology I |  |  |  |
| Flight Path: HGE - Human Services |  |  |  |

*College Credit option possible

This course provides a study of physical, intellectual and social-emotional child development from toddler through school age. Students will discuss and observe strategies for providing age-appropriate, safe and educational learning environments. Hands-on learning with First Aid \& CPR Training will be embedded in the program. This class is recommended for students who are interested in careers working in education, child care and pediatric medicine.

## INTERIOR DESIGN

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0504 | Semester | $9-12$ | 0.5 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

Have you ever dreamt about building or decorating your own dream house? Do you like redecorating or have ideas of painting a room a different color? If so, you need to explore the world of Housing/Interior Design. Students will study elements/principles of design, color schemes, decorating styles, furniture arrangements, and floor plan layout. Learning will be demonstrated through completion of a variety of projects using traditional design.


FAMILY AND CONSUMER SCIENCE 9-12

## NUTRITION

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0508 | Semester | $10-12$ | 0.5 |

Prerequisite: None
Flight Path: HGE - Culinary, HAS - Healthcare

The course is designed to deepen students' understanding of their nutritional needs, the body's use of macro and micro nutrients, and healthy diet management throughout the life span. Specialty diets and nutritionally linked health conditions will be examined as well as energy needs in relation to an individual's unique needs. This class is recommended for students who are interested in the study of nutrition and may be considering nutritional science related careers such as dietetics, hotel and restaurant management, sports fitness coordinators and students pursuing a career in medicine.

## INTRODUCTION TO CULINARY ARTS

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0511 | Semester | $9-12$ | 0.5 |
| Prerequisite: None |  |  |  | Flight Path: HGE - Culinary $\quad . \quad$.

Thinking about a career in the food industry? Like to eat and come up with creative dishes? Introduction to Culinary Arts will lead you in the right direction. Developed by the National Restaurant Association as an industry based course that prepares students for careers in the restaurant or hospitality and lodging fields. Students will practice successful customer relations, culinary food prep methods, safety, nutrition, and meal appeal. Students can earn the ProStart National Certificate of Achievement by passing both of the ProStart exams. This certificate is recognized by colleges, restaurants, and hotels all over the country! ATTN: Equipment used in class is not peanut/nut/gluten free. If you have severe allergies, please consider registering for another class that does not involve food. There is a lab fee of $\$ 10$ for this class.

## ADVANCED CULINARY ARTS

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0512 | Semester | $10-12$ | 0.5 |
| Prerequisite: Introduction to Culinary Arts |  |  |  | Flight Path: HGE - Culinary $\quad$.

Do you enjoy the time you spend in the kitchen? Do you see yourself working in the foodservice industry? Advanced Culinary Arts will aid in continued development of skills for the restaurant, hospitality and lodging industry. Students will continue to develop and understand the food industry while participating in hands-on, creative labs. Students can earn the ProStart National Certificate of Achievement by passing the ProStart. This certificate is recognized by colleges, restaurants, and hotels all over the country! There is a lab fee of $\$ 10$ for this class.

INTERNATIONAL CULINARY ARTS (offered 24-25)

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0513 | Semester | $11-12$ | 0.5 |

Prerequisite: Advanced Culinary Arts
Flight Path: None

Travel around the world through food! Explore various cultures while learning how to prepare and serve new and interesting foods from other countries and regions of the United States. This course emphasizes variety in food products and preparation techniques. You must be open to trying new foods! There is a lab fee of $\$ 10$ for this class.
This course is offered every-other year.


FAMILY AND CONSUMER SCIENCE 9-12

BAKING AND PASTRY ARTS (Offered 25-26)

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0523 | Semester | $11-12$ | 0.5 |

Prerequisite: Advanced Culinary
Flight Path: HGE - Culinary

Students in Baking and Pastry Arts take on the world of pastry chefs. Baking principles and procedures will be examined and applied through hands-on practice and weekly/biweekly labs. Possible cooking units include pastries, pies and tarts, shortened cakes, whipped-cakes, cake decorating, quick breads, yeast breads, and other baked goods of student interest. Students will also explore measuring using weight, calculating baker's percentage, cost analysis of baked goods, and industry standards for commercial baking. This course is offered every-other year.

## FLIGHT PATHS CAPSTONE

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0525 | Semester | 11 | 0.5 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

In this required junior capstone course, students will do a deep dive into their plans for after graduation. They will evaluate the courses they will need to create a meaningful senior year as they prepare for continuing education or entering into the workforce. They will look at the current demand, wages, and required levels of continuing education that align with what they want to do in their future. Students will also engage in personal finance content to set them up for increased financial independence and success that will include topics such as banking, savings, insurance, investment, retirement, and more.


## HEALTH AND PHYSICAL EDUCATION 9-12

It is the philosophy of the Health and Physical Education Department, Red Wing elementary and secondary schools, to set up learning experiences and situations that will enable the student to develop his whole being to the maximum of his ability. Through these learning experiences and situations, the students will develop skills, learn to solve problems, use their imaginations, be creative, analyze, interpret, and react in an intellectually and socially satisfying way.

PHYSICAL EDUCATION 9

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0215 | Semester | 9 | 0.5 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

Ninth grade physical education will introduce the student to the Lifetime Fitness Program through fitness testing, cooperative activities, and an introduction to strength and aerobic training. In this class students must demonstrate an understanding of fitness principles, benefits, and concepts. Evaluation is based on participation, task management skills, and the knowledge and skills in the various activities.

## HEALTH

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0219 | Semester | 10 | 0.5 |
| Prerequisite: None |  |  |  |
| Flight Path: HAS - Foundation |  |  |  |

Health is a comprehensive study of interrelated components that stress Decision Making and skills necessary for Lifelong Wellness. Through careful presentation of information necessary for making personal decisions, students are encouraged to assess their attitudes and behavior patterns and to understand the impact life-style choices have not only on their Mind, Body, and Spirit; but the Mind, Body, and Spirit of their family, friends, classmates, and community. Students will study decision making, goal setting, stress management, grief, mental health, chemical use/misuse/abuse, and healthy relationships.

INDIVIDUAL \& DUAL SPORTS (Offered 24-25)

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0208 | Semester | $10-12$ | 0.5 |

Prerequisite: Physical Education 9
Flight Path: HAS - Sports Medicine

Do you dislike forming teams in P.E.? Is it just awkward? This course is for you! This course is for beginner individual and dual sport players who would be willing to develop their skills in individual and dual related sports, knowledge of rules, strategies and partner teamwork skills. This course is meant to be a chance to work in a non-competitive setting to develop your basic skills to be able to engage in individual and dual sports/activities inside and outside of school. Individual and dual sports are, but not limited to, badminton, pickleball, yard games, tennis, disc golf, etc. This class is for you if you are willing to participate and use strategies throughout the variety of sports list above!
This course is offered every other year
INDIVIDUAL \& DUAL SPORTS II

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0218 | Semester | $10-12$ | 0.5 |
| Prerequisite: Individual \& Dual Sports I |  |  |  |
| Flight Path: HAS - Sports Medicine |  |  |  |

Do you dislike forming teams in P.E.? Is it just awkward? Do you want to be in a competitive class but get to play by yourself or one other person? This course is for you! This course is all about using your previously gained skills, knowledge, strategies and teamwork to engage in a competitive setting. This course will bring opportunities for leadership and tournament play in a range of individual and dual sports throughout the semester. Individual and dual sports are, but not limited to, badminton, pickleball, yard games, tennis, disc golf, etc.
This course is offered every other year

## Lifetime Fitness

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0214 | Semester | $9-12$ | 0.5 |
| Prerequisite: None |  |  |  | Flight Path: HAS - Sports Medicine $\quad$.

Looking for a P.E. class where you get to do things like yoga? Walking? Scavenger hunt? Are you willing to take a relaxing twist on a P.E. class? This course is meant to show you different types of ways to be physically active around our town of Red Wing. Some will be sports based, some will be adventure based but, most importantly, fun based! This class is meant to be a relaxing, comfortable and an inclusive class to promote a positive relationship with physical activity! Some activities, but not limited to, could be yoga, indoor or outdoor hiking/walk, scavenger hunts, pickleball, Kan Jam, bean bag toss, etc. If you are willing to try new things, this would be a great course for you!

## INTRO STRENGTH \& FITNESS

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0209 | Semester | $10-12$ | 0.5 |
| Prerequisite: Physical Education 9 |  |  |  |
| Flight Path: HAS - Sports Medicine |  |  |  |

This is an elective course designed for students who have a sincere desire to improve their physical fitness through an introductory class focusing on strength and conditioning. This will be accomplished by learning how to safely weight train and improve cardiovascular conditioning. Other areas we will focus on are speed and agility, flexibility, and core strength. Athletes are expected to participate on game day.

## TEAM SPORTS I

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0211 | Semester | $10-12$ | 0.5 | Prerequisite: Physical Education $9 . \quad . \quad$| Flight Path: |
| :--- |

This course is for beginner team sport players who would be willing to develop their skills in team related sports, knowledge of rules, strategies and teamwork skills. This course is meant to be a chance to work in a non-competitive setting to develop your basic skills to be able to engage in team sports inside and outside of school. Team sports are, but not limited to, basketball, soccer, lacrosse, football, floor hockey, volleyball, ultimate frisbee, softball, etc. This class is for you if you are willing to participate and work with others throughout the variety of sports list above! This course is offered every other year

TEAM SPORTS II (Offered 24-25)

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0212 | Semester | $10-12$ | 0.5 |
| Prerequisite: Team Sports I |  |  |  |
| Flight Path: |  |  |  |

This course is all about using your previously gained skills, knowledge, strategies and teamwork to engage in a competitive setting. This course will bring opportunities for leadership and tournament play in a range of team sports throughout the semester. Team sports are, but not limited to, basketball, soccer, lacrosse, football, floor hockey, volleyball, ultimate frisbee, softball, etc. This class is for you if you are a competitive person looking to engage with other competitive people.
This course is offered every other year

HEALTH AND PHYSICAL EDUCATION 9-12

## UNIFIED SPORTS

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0223 | Semester | $10-12$ | 0.5 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

Unified PE is not your typical Physical Education class! Unified PE is a unique opportunity for students with and without intellectual \& physical disabilities to participate in sports, recreation, wellness, and leadership activities together. This course focuses on the physical, intellectual, and social growth of all participants. Engaging physical activity and sport alongside peers with and without disabilities fosters important social relationships.


## NURSING ASSISTANT

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0818 | Semester | $11-12$ | 0.5 |
| Prerequisite: None |  |  |  |
| Flight Path: HAS - Healthcare |  |  |  |

* College Credit Available

Is the medical field in your future? You can start next year by taking the Nursing Assistant Class here at RWHS. This course is run concurrently through MSCSE and gives the required training in order to take the board-approved exam to become a Certified Nursing Assistant. Passing this test gives you the required certification to work in a variety of healthcare settings and meets the prerequisites for some continuing nursing programs and earns three College Credits through MSCSE. The course will meet in person but is run asynchronously online with additional full days for hands-on labs.

INDUSTRIAL TECHNOLOGY EDUCATION 9-12

## INTRODUCTION TO WOODWORKING

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 540 | Semester | $9-12$ | 0.5 |

Prerequisite: None
Flight Path: MET - Carpentry, MET - Construction

This class is a broad introduction to woodworking machines and cabinet-making skills. Students will construct a project that will include activities in the following areas: Measurement and Layout; Machine Demonstrations; Adhesives, Gluing, Clamping; Tool Identification; Machine Operation; Screws, Nails, and Staples; Project Planning; Project Construction; Abrasives and Sanding; Machine \& Personal Safety; Joinery Techniques; and Stains and Finishes

## CREATIVE WOODCRAFTS

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 541 | Semester | $9-12$ | 0.5 |
| Prerequisite: Intro to Woodworking |  |  |  | Flight Path: None $\quad . \quad$.

This class is designed for students with an interest in creative woodcrafts that have little or no woodworking experience. An integral part of the class will involve the student's selection and planning of his or her project(s). It will provide the opportunity to become familiar with the materials, tools and equipment frequently used to create wooden folk art. Students will use a variety of stains, finishes and paints to complete their project(s). This class is appropriate for students who wish to design and build small woodcraft projects and learn basic woodworking.

(Woodworking Technology)

## MACHINE WOODWORKING

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 542 | Semester | $10-12$ | 0.5 |

Prerequisite: Intro to Woodworking
Flight Path: MET - Carpentry

## *Articulation agreement available

Students enrolled in this course will continue to develop their skills learned in Intro to woods, students will learn tool maintenance, types of advanced joinery used in woodworking industry, and Wood Lathe operations. Students will also learn how to operate CNC machinery to develop cabinets and various projects. Value will be placed on craftsmanship, and project development. Students will develop skills in the use of state of the art machinery, along with 3 Dimensional drafting programming used in the woodworking industry. Machine Woods is a prerequisite for Wood Cabinet Making I and II

## CABINETMAKING I

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| Level 1-0544 <br> Level 2-0545 | Full Year | $10-12$ | 1 |
| Prerequisite: Machine Woodworking |  |  |  |
| Flight Path: MET - Carpentry |  |  |  |

Students will design and develop individual projects based on skills learned in the Machine Woods and Intro to Woods courses. Students are expected to be able to use all shop machinery in the development of projects. An emphasis will be placed on the use and improvement of personal skills in the creation of projects from lumber selection through the finishing process of all projects. The projects will be arranged during a teacher/student conference and routinely updated during additional conferences throughout the semester.

## INDUSTRIAL TECHNOLOGY EDUCATION 9-12

## INDEPENDENT WOODWORKING

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 550 | Semester | 12 | 0.5 |

Prerequisite: Machine Woods II, Cabinetmaking II, Instructor Permission

Flight Path: None

The student will construct projects that are school related, personal and or both. The projects will be arranged during a teacher/student conference and routinely updated during additional conferences throughout the semester.

INDUSTRIAL ENTERPRISE PRACTICUM

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 595 | Semester | $11-12$ | 0.5 |
| Prerequisite: Instructor Approval |  |  |  | Flight Path: None $\quad . \quad$.

The Industrial Enterprise Practicum course is designed to give students a culminating experience in applying leadership, management, and production skills. The students directly apply the elements of business and industry as they become actively involved in a manufacturing enterprise. The course content is oriented around laboratory activities necessary to organize and operate an enterprise, which will research, plan, produce, and market a product.

## (Woodworking Technology)

CONSTRUCTION TECHNOLOGY \& OCCUPATIONS

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| $1550 / 2550$ | Full Year | $11-12$ | 1 |

Prerequisite: Intro to woodworking or Intro to Metals, Instructor Approval

Flight Path: None

In this hands-on light construction course, students will prepare for a career in the skilled trades. Through actual planning and building, this class will design and construct a small structure. Topics covered include: jobsite safety, drafting, construction codes and construction fundamentals. After completion of this course students will be able to: Identify major technology systems and list types of construction; Practice safety in use of tools and carrying out of processes; Show basic skill in use of various carpentry tools; Perform carpentry tasks at a satisfactory level of skill; Demonstrate a knowledge of job opportunities in construction; Complete small construction projects with supervision; demonstrate desirable on-the-job interpersonal relationship skills.

INTRODUCTION TO METALWORKING TECHNOLOGY

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0555 | Semester | $9-12$ | 0.5 |
| Prerequisite: None |  |  |  | Flight Path: MET - Metals, MET - Machining $\quad$.

Exploration of metalworking in the areas of welding and machining, foundry and sheet metal. The student will do arc welding, gas welding, metal lathe, surface grinder, foundry, and sheet metal. Students will complete projects in these areas.

## HOT METAL TECHNOLOGY

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0556 | Semester | $10-12$ | 0.5 |
| Prerequisite: Introduction to Metalworking |  |  |  |
| Flight Path: MET - Metals |  |  |  |

*College Credit option possible
This course is for the student who has developed an interest in the hot metals/welding areas. The topics covered will include: Innershield/Flux core welding; Plasma/Arc Air Cutting; Arc Welding; Oxy-Acetylene Welding/cutting; Gas Metal Arc Welding (MIG); Gas Tungsten Arc Welding (TIG); Plastic Welding; Safety; and Careers.

## METALS TECHNOLOGY

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0557 | Semester | $10-12$ | 0.5 |
| Prerequisite: Introduction to Metalworking |  |  |  |
| Flight Path: MET - Metals |  |  |  |

*College Credit option possible
This course is for the student who has developed an interest in the machine shop cold metal areas of metalworking. The course will cover the areas of: Advanced metal lathe; Vertical milling machine; Safety in all areas; Computer Machining (CNC); Vertical Mill; and Lathe.

## METAL FABRICATION/WELDING I

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0560 | Semester | $10-12$ | 0.5 |

Prerequisite: Hot Metal Technology
Flight Path: MET - Metals
*College Credit option possible

This course deals with the areas of: Safety, Metallurgy, Oxy-Acetylene Welding, Arc Welding, Gas Metal Arc Welding (MIG), Plastic Welding, Gas Tungsten Arc Welding (TIG), Metal Cutting Methods, Special Welding/Brazing, and Employment skills/outlook. Also, the layout and fabrication of school or private projects by each student. Welds will be done in all positions on a variety of metals.

## METAL FABRICATION/WELDING II

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0561 | Semester | $10-12$ | 0.5 |
| Prerequisite: Metal Fabrication/Welding I |  |  |  | Flight Path: MET - Metals $\quad$.

*College Credit option possible

This course deals in depth with the areas of: Layout \& design, specialized brazing, welding symbols, specialized rods/welding, blueprint reading, specialized cutting processes, out of position welding. Fabrication of one or more large school or private projects: (Arc, Oxy-acetylene, MIG, and TIG)s


CREATIVE METALWORK

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0563 | Semester | $10-12$ | 0.5 |
| Prerequisite: Introduction to Metal Technology |  |  |  | Flight Path: None

This course is designed for students with an interest in creative metals. Students will understand the basic art form concepts that are applied to simple metalworking. Students will create and analyze original works of art using metal as a medium. This will include, but not be limited to, aluminum castings, sheet metal sculpture, and one welding of steel. This Course can be used towards 1.0 credit of art needed for graduation.

## INDUSTRIAL TECHNOLOGY EDUCATION 9-12

## INTRODUCTION TO SMALL GAS ENGINES

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0570 | Semester | $9-12$ | 0.5 |

Prerequisite: None
Flight Path: MET - Transportation
*College Credit option possible

The student will learn to repair and maintain small single cylinder gas engines of less than 5 HP . The engines on lawn mowers, snow blowers, chain saws, etc. will be included. The school will provide all required engines.

## ADVANCED POWER

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0572 | Semester | $11-12$ | 0.5 |
| Prerequisite: Intro to Small Gas Engines |  |  |  |
| Flight Path: MET - Transportation |  |  |  |

*College Credit option possible

Course will cover advanced work on small gas engines and on multi-cylinder engines. Advanced engine rebuilding techniques will be included. Some engine performance modifications may be done.

## INDEPENDENT MACHINE SHOP

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0565 | Semester | 12 | 0.5 |

Prerequisite: Metal Technology II and Instructor approval

Flight Path: None

The student will construct an advanced project either personal or school related. The project shall use all of the machines listed: Lathe, milling machine, and surface grinder. The project(s) shall last ten weeks in duration. Accuracy and quality of construction shall be stressed. Work with computer lathe, milling machining, if a student desires.

## (Power Technology)

## AUTOMOTIVE SERVICE AND REPAIR

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0571 | Semester | $11-12$ | 0.5 | Prerequisite: Driver's License and Vehicle to work on.

*College Credit option possible

This course is a basic automobile service course. It is designed for the student to perform simple maintenance of a general nature. As an auto owner, it will help with keeping your auto running longer by performing general upkeep. Topics include: Safety, emission systems, electrical systems, engine tune-up, lubrication, fuel systems, cooling systems, ignition systems, hoist use and safety, braking systems, and tire technology.


## ^INTRODUCTION TO ENGINEERING DESIGN - wtd

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0580 | Full Year | $9-12$ | 1 |

Prerequisite: None
Flight Path: MET - Foundation, MET - Engineering
*College Credit option possible
Students use a problem solving model to improve existing products and invent new ones. Using sophisticated computer aided design software, students communicate the details of the products. Emphasis is placed on analyzing potential solutions and communicating ideas to others.
This course is offered every-other year.
^PRINCIPLES OF ENGINEERING - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0581 | Full Year | $10-12$ | 1 |
| Prerequisite: None |  |  |  |
| Flight Path: MET - Engineering |  |  |  |

*College Credit option possible

This introductory course explores the wide variety of careers in engineering and technology and looks at various technology systems and manufacturing processes. Using activities, projects, and problems, students learn first- hand how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people. It is recommended that students have completed algebra before taking this class. This course is offered every-other year.
${ }^{\wedge}$ CIVIL ENGINEERING and ARCHITECTURE - wtd

| Course number | Course Length | Grade | Credits |
| :---: | :---: | :---: | :---: |
| 0582 | Full Year | 10-12 | 1 |
| Prerequisite: None |  |  |  |
| Flight Path: MET - Engineering |  |  |  |

*College Credit option possible

Students apply what they learn about various aspects of civil engineering and architecture to the design and development of a property. Working in teams, students explore hands-on activities and projects to learn the characteristics of civil engineering and architecture. In addition, students use 3D design software to help them design solutions to solve major course projects. Students learn about documenting their project, solving problems and communicating their solutions to their peers and members of the professional community of civil engineering and architecture.
This course is offered every-other year.
${ }^{\wedge}$ DIGITAL ELECTRONICS - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0583 | Full Year | $10-12$ | 1 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

*College Credit option possible
This course introduces students to applied digital logic, a key element of careers in engineering and engineering technology. This course explores the smart circuits found in watches, calculators, video games, and computers. Students use industry standard computer software in testing and analyzing digital circuitry. They design circuits to solve problems, export their designs to a printed circuit auto-routing program that generates printed circuit boards, and use appropriate components to build their designs. Students use mathematics and science in solving real-world engineering problems. This course covers several topics including: Analog and digital fundamentals; Number systems and binary addition; Logic gates and functions; Boolean algebra and circuit design; and Decoders, multiplexers and demultiplexers.
This course is offered every-other year.

## ^ENGINEERING DRAWINGS 1/PRECISION

MEASURING - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0566 | Semester | $11-12$ | 0.5 |
| Prerequisite: Intro to Metals |  |  |  |
| Flight Path: MET - Machining |  |  |  |

*MSCSE - CMAE1510/MACH1610-2 Credits each

Engineering Drawings and will provide the theory, technique, and care of typical measuring tools used in the machining profession. Students will learn various measuring techniques used in the manufacture of machined parts. Major content areas include: safety considerations, precision measuring tools and gauges, setup sine bar and indicator, operation of optical comparator, operation of hardness tester, using reference books.

Precision Measuring and Gauging and covers the fundamentals of basic blueprint reading. The student will learn skills to interpret blueprints and sketches that would be used in industry. Topics of study will be sketching, dimensioning, line interpretation, section views, tolerance, and working drawings. Major Content Areas include: 1. Drawings and prints 2. Dimensioning techniques 3 . Tolerancing application 4. Machining details 5 . Section views 6 . Geometric tolerancing and dimensioning.
^INTRO TO CAD/CAM+3D PRINTING - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0568 | Semester | $11-12$ | 0.5 |

Prerequisite: Engineering Drawings I/ Precision Measuring

Flight Path: MET - Machining
*MSCSE - MACH 1662-3 Credits
This course will familiarize the student with computer aided drafting, computer aided machining and 3D printing. Students will learn the design drafting process of the CAD computer program. Students will learn the Computer Aided Machining (CAM) process of the software to produce Machining Tool paths and to write G-code programs. Students will learn how to import CAD models into 3D printing slicing software and how to print the model.
^INTRODUCTION TO CNC PRECISION MACHINING TECHNOLOGY - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0567 | Semester | $11-12$ | 0.5 |

Prerequisite: Engineering Drawings I/ Precision Measuring

Flight Path: MET - Machining
*MSCSE - MACH 1642-2 Credits

This course will familiarize the student with CNC machining and set up. Students will write programs and run programs on the various machines on the shop floor. Students will use both word address and conversational programming formats. Major content areas include: safety considerations, calculating machining data, writing programs, set-up for CNC machines, Operation of CNC machines, measuring parts and comparing specifications.
${ }^{\wedge}$ CNC PRECISION MACHINING 2 - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0568 | Semester | $11-12$ | 0.5 |

Prerequisite: Introduction to CNC Precision Machining

Flight Path: MET - Machining
*MSCSE - MACH 1643-2 Credits

This course will familiarize the student with CNC machining and set up. Students will run programs on the various machines on the shop floor. Students will use both word address and conversational programming formats. This is the culminating class of CNC machining. Students will design and manufacture a part from scratch using CAD/CAM and equipment in the shop.


## LANGUAGE ARTS 9-12

A minimum of 4 Language Arts credits (8 semester courses) must successfully be completed to graduate. Students may move from one curriculum track to another curriculum track.

LANGUAGE ARTS 9

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0600 | Full Year | 9 | 1 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

Language Arts-9 continues to explore our world in the areas of listening, speaking, reading, writing, and the use of media. Literature units may include poetry, short stories, novels, plays, nonfiction, and articles which include diverse voices and differing viewpoints. Writing mechanics and procedures are taught following the Minnesota State Standards at the ninth grade level.
^HONORS LANGUAGE ARTS 9 - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0601 | Full Year | 9 | 1 |
| Prerequisite: None |  |  |  | Flight Path: None $\quad$.

This course is designed to challenge students of high academic potential. Students focus on developing strong strategies and skills in the areas of reading, writing, speaking, and listening. To do so, students study grammar and read a variety of non-fiction and fiction including short stories, novels, plays, poetry, historical and contemporary speeches, and opinion essays. A heavy emphasis is placed on developing writing skills.

## LANGUAGE ARTS 10

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0607 | Full Year | 10 | 1 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

Language Arts-10 continues to explore our world in the areas of listening, speaking, reading, writing, and the use of media. Literature units may include poetry, short stories, novels, plays, nonfiction, and articles which include diverse voices and differing viewpoints. Writing mechanics and procedures are taught following the Minnesota State Standards at the tenth grade level.

## ${ }^{\wedge} H O N O R S$ LANGUAGE ARTS 10 - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0614 | Full Year | 10 | 1 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

This course is designed to challenge students of high academic potential. Students focus on developing strong strategies and skills in the areas of reading, writing, speaking, and listening. Students will complete a summer reading project and during the course of the school year, take a close look using critical lenses at the development of language skills through a variety of novels, poems, nonfiction pieces, and other texts.

AMERICAN LITERATURE I

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 1603 | Semester | $11-12$ | 0.5 |

Prerequisite: None

Flight Path: None

This course will examine the cross-cultural roots that are the foundation for all modern American literature. Students will read fiction, poetry, historical pieces, and other texts from approximately 1580-1880 that show the development of the American canon from a variety of perspectives. Writing mechanics and procedures are taught following the Minnesota State Standards at the eleventh and twelfth grade level.

AMERICAN LITERATURE II

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 2604 | Semester | $11-12$ | 0.5 |

Prerequisite: None
Flight Path: None

This course will examine the array of conflicting literary voices that make America a unique, exciting, diverse nation. This course will cover the second half of American Literature, focusing on approximately the year 1880-present that show the development of the American canon from a variety of perspectives. Writing mechanics and procedures are taught following the Minnesota State Standards at the eleventh and twelfth grade level.
^ADVANCED PLACEMENT: LITERATURE \& COMPOSITION - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0606 | Full Year | 12 | 1 |

Prerequisite: AP Language and Composition. A reading comprehension score of 250 or higher on the ACCUPLACER NextGen Test.

Flight Path: None
*MNSCSE - ENGL - 1165/2525-6 credits

The course offers students the opportunity to complete college-level studies in English during their senior year. Emphasis is the development of skills in critical reading of imaginative and discursive literature writing about literature and related ideas. It is for students capable of performing college-level work in English while they are in secondary school, and who are willing to devote the energy necessary to complete a course more rigorous and demanding than other high school English courses designed for the college-bound student. Taking the AP Exam in May is recommended.
^ADVANCED PLACEMENT: LANGUAGE \& COMPOSITION - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0608 | Full Year | 11 | 1 |

Prerequisite: Successful completion of Honors 10 is strongly recommended. A score of 250 or higher on the ACCUPLACER NextGen Test is required for concurrent credit.

Flight Path: None
*MSCSE - ENGL 1215-3 Credits

The course offers students the opportunity to complete college-level studies in English. In this course, students will become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and will become skilled writers who compose for a variety of purposes. Student writing and reading should make them aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way the conventions and resources of language contribute to effectiveness in writing. Taking the AP Exam in May is recommended.

## LANGUAGE ARTS 9-12

MYTHOLOGY

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0621 | Semester | $11-12$ | 0.5 |

Prerequisite: None

Flight Path: None

This class will survey folk tales and myths from cultures around the world, from ancient to modern times. Through readings, films, and plays, students will examine themes and symbolism common to the mythology of all human cultures. Through lectures and class discussions, students will examine myths as powerful expressions of cultural yearning as well as powerful instruments for social control. Writing mechanics and procedures are taught following the Minnesota State Standards at the eleventh and twelfth grade level.

## BRITISH LITERATURE

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 1605 | Semester | $11-12$ | 0.5 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

This course, which focuses on the literature of the British Isles, will require you to think critically, read carefully, write reflectively, and share ideas constructively. The first quarter offers a "survey"-style tour through literary movements. After completing a summative project comparing themes in course readings, students will select a work of British literature to read and respond to independently. Writing mechanics and procedures are taught following the Minnesota State Standards at the eleventh and twelfth grade level. (Formerly World Literature I)

## GLOBAL LITERATURE

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0619 | Semester | $11-12$ | 0.5 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

This literature course focuses primarily on post-colonial literature from outside of Western Europe and North America. This course will require you to think critically, read carefully, write reflectively, and share ideas constructively. This course will explore the literature of Africa, Latin America among others. We conclude with a self-selected reading unit with options of novels from around the globe. Writing mechanics and procedures are taught following the Minnesota State Standards at the eleventh and twelfth grade level. (Formerly World Literature II)

THEATER

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0623 | Semester | $11-12$ | 0.5 |

Prerequisite: None
Flight Path: None
Theater does not earn a Language Arts. *Can be used for .5 art credit

In this introductory course, students will read, interpret, and act out various genres of Theater: comedy, tragedy, melodrama, and farce. In doing so, students will learn basic Theater terms, learn about different dramatic styles of Theater. Students will also explore Theater through its historical, cultural, or social context. They will be asked to apply certain criteria to analyze and interpret a work in Theater.
This course is offered every other year. Not offered 23-24

## NATIVE LITERATURE

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0629 | Semester | $11-12$ | 0.5 |

Prerequisite: None
Flight Path: HGE - Dakota Culture

Native Literature will serve as an overview of Indigenous literatures across the globe from oral storytelling to contemporary work. We will examine the structure of the story and the moves native storytellers make in response to historical events and Indigenous pride. From poetic folklore to works of current identity, Native Literature seeks to center Indigenous voices. Writing mechanics and procedures are taught following the Minnesota State Standards at the eleventh and twelfth grade level.


## MATHEMATICS 9-12

Students must complete 3 years of math which must include at least all classes through Algebra 2 to meet the graduation requirements. All math classes beyond Algebra 2 have the possibility of earning college credit. Students can move in and out of honors math classes. The following flow chart shows the progression of classes throughout RWHS math.

RWHS Math Department Sequence Options


* Stats courses can be taken any time after Algebra 2 and at the same time as: College Algebra, Honors Precalc, Calculus, or AP Calculus. Both stats courses can also be taken during the same year as well.


## MATHEMATICS 9-12

INTERMEDIATE ALGEBRA

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0705 | Full Year | $9-12$ | 1 |

Prerequisite: Linear Algebra or Honors Algebra
Flight Path: None

This course is designed to develop the MN State Standards in mathematics for the algebra strand. An emphasis will be placed on systems of linear equations, polynomials, quadratic functions, and exponential functions.

## GEOMETRY

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0710 | Full Year | $9-12$ | 1 |

Prerequisite: Intermediate Algebra or Honors Algebra I

Flight Path: MET - Foundation, MET - Metals, MET - Carpentry, MET Construction

This course is designed to develop the MN State Standards for the geometry strand, with an emphasis on trigonometry, circles, area/volume, ratio/proportion, transformations, parallel/perpendicular lines, congruent/similar polygons, and angle relationships.
^HONORS GEOMETRY - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0713 | Full Year | $9-12$ | 1 |
| Prerequisite: Intermediate Algebra or Honors <br> Algebra I |  |  |  |
| Flight Path: MET - Foundation, MET - Metals, <br> MET - Carpentry, MET Construction |  |  |  |

This course will be a faster pace and more rigorous study of the MN State Standards for the geometry strand, with an in depth emphasis on trigonometry, circles, area/volume, ratio/proportion, transformations, parallel/ perpendicular lines, congruent/similar polygons, angle relationships, and other topics as time permits.

## ALGEBRA II

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0715 | Full Year | $10-12$ | 1 |

Prerequisite: Intermediate Algebra or Honors Algebra I, Geometry

Flight Path: None

This course is designed to develop the MN State Standards in mathematics with an emphasis on solving and graphing linear, quadratic, polynomial, radical, exponential, logarithmic and trigonometric functions.
^HONORS ALGEBRA II - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0716 | Full Year | $10-12$ | 1 |
| Prerequisite: Intermediate Algebra or Honors <br> Algebra I, Honors Geometry or Geometry |  |  |  | Flight Path: None $\quad$.

This course will be a faster pace and more rigorous study of the MN State Standards in mathematics with an in-depth emphasis on solving and graphing linear, quadratic, polynomial, rational, radical, exponential, logarithmic and trigonometric functions, and other topics as time permits. Additional homework is assigned.
^BASIC AND APPLIED STATISTICS (Analytical) weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0720 | Full Year | $11-12$ | 1 |

Prerequisite: Algebra 2 or Honors Algebra 2
Flight Path: HAS - Mathematics,
*U of M - EPSY 3264-3 Credits

This is an analytical course that uses real life data and principles that are founded in research using daily small group activities and discussion. Topics covered are: Modeling and simulation, Modeling sampling variation, experimental variation and the randomization test,Sampling variation and the bootstrap test, and Estimating Uncertainty.
${ }^{\wedge}$ INTRO TO STATS (Computational) - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0722 | Full Year | $11-12$ | 1 |

Prerequisite: Algebra 2 or Honors Algebra 2
Flight Path: HAS - Mathematics
*MSCSE - MATH 1230-3 Credits
This is a computational course that emphasizes the concepts and methods of statistics. Topics covered are: Collect, analyze, organize, and interpret numerical information from data, Understanding statistical method, Suitability of statistical methods and meanings of results, practical applications involving decision making.
${ }^{\wedge}$ COLLEGE ALGEBRA - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0724 | Full Year | $11-12$ | 1 |

Prerequisite: Algebra 2 or Honors Algebra 2
Flight Path: HAS - Mathematics, HAS - Chemistry, BCA - Accounting, MET - Foundation, MET Engineering
*MSCSE - MATH 1220-3 Credits
This course emphasizes topics needed in Calculus. These topics include coordinate geometry, graphing, techniques of equation solving, probability, complex numbers, sequences and series, trigonometric functions and identities, matrices, triangle and circle trigonometry.

${ }^{\wedge} H O N O R S$ PRECALCULUS - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0725 | Full Year | $11-12$ | 1 |

Prerequisite: Algebra 2 or Honors Algebra 2
Flight Path: HAS - Mathematics, HAS - Chemistry, BCA - Accounting, MET - Foundation, MET Engineering
*MSCSE - MATH 1225-3 Credits

This course emphasizes topics needed in Calculus. These topics include coordinate geometry, conic sections, triangle and circle trigonometry, trigonometric ratios and identities, limits, logarithmic functions. The course is extremely rigorous and is designed for the college bound student.
${ }^{\wedge}$ CALCULUS - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0727 | Full Year | $11-12$ | 1 |

Prerequisite: College Algebra or Honors Precalculus
Flight Path: HAS - Mathematics, HAS
*MSCSE - MATH 2440-4 Credits

This class will be an introduction to Calculus. Topics included will be Limits and Continuity, Derivatives, Applications of Differentiation, Integrals, Techniques of Integration
^AP CALCULUS - weighted

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0729 | Full Year | $11-12$ | 1 |

Prerequisite: College Algebra or Honors Precalculus
Flight Path: HAS - Mathematics, HAS
*MSCSE - MATH 2440-4 Credits

This course will prepare students for the AP Calculus exam. Topics included will be the same as the Calculus class: Limits and Continuity, Derivatives, Applications of Differentiation, Integrals, Techniques of Integration. This course will also include slope fields, volume, and an AP Calculus review in order to prepare students for the AP exam in May.

## MUSIC 9-12

A word about the performance aspect of Band and Choir. Music is a performing art. There is very little value in learning how to play or sing if one does not experience opportunities to use playing and singing skills in performance. Thus, the value the individual student gains from these courses is to a large degree directly related to the successful performance of the total group. To successfully plan meaningful performances, the instructors must be able to count on student attendance at concerts that may fall outside of the school day. These performance dates will be announced at the beginning of the school year. In the rare instance when attendance is impossible, an alternative activity must be pre-arranged to achieve full credit. Students must stay in Band or Choir for the full year.
NOTE: All courses in this department may be used to help fulfill the one credit of art that is required for graduation.

## FRESHMAN BAND

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0200 | Full Year | 9 | 1 |

Prerequisite: Successful completion of 8th Grade Band or Permission of Instructor

Flight Path: BCA - Band

This band is the continuation of the 8th grade music program. Techniques for performance will be rehearsed through a variety of band literature. Concert attendance and lessons are a part of class.

## SYMPHONIC BAND

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0202 | Full Year | $10-12$ | 1 |
| Prerequisite: Successful Completion of Freshman <br> Band or Permission of Instructor |  |  |  |
| Flight Path: BCA - Band |  |  |  |

This band is the continuation of the High School Band Program. Exposure to a variety of musical styles, musical literature and growth in individual musicianship are ensemble goals. Concert attendance and lessons are a part of this class as well as the opportunity to be involved in a solo and ensemble contest. Participation in the Fall and Winter Pep Bands is a requirement of this class.

CONCERT BAND

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0203 | Full Year | $11-12$ | 1 |
| Prerequisite: Successful Completion of Symphonic <br> Band and/or Permission of Instructor through <br> placement exam. |  |  |  |
| Flight Path: BCA - Band |  |  |  |

This Ensemble is made up of a predetermined instrumentation and is filled through a placement exam. Exposure to a variety of musical styles will be explored. Concert attendance and participation in lessons and sectionals are a part of this class as well as the opportunity to participate in solo/ensemble contests. Participation in the Fall and Winter Pep Bands is a requirement of this class.

## JAZZ LAB

| Course number | Course Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0205 | Full Year | $10-12$ | 1 |
| Prerequisite: Successful Completion of Symphonic <br> Band and/or Permission of Instructor through <br> placement exam. |  |  |  |
| Flight Path: BCA - Band |  |  |  |

This group studies and performs a variety of literature, including swing, Latin, jazz, funk, blues and rock. Each year, the group performs at concerts, adjudicated festivals, and various civic occasions. Special emphasis is placed on developing improvisation skills, music theory and ensemble performance. Membership requires a high degree of musical skill and personal discipline. This course is open to primarily juniors and seniors students who must audition and be registered for either Symphonic or Concert Band.

## CHOIR 9

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0208 | Full Year | 9 | 1 |

Prerequisite: None
Flight Path: BCA - Choral

This class involves an exploration of many musical styles. Students work for well-developed tone production, while expanding ranges through challenging music and individual lessons. Strong rehearsal participation is required, resulting in a solid, professional concert performance. Three required concerts are performed each year.

## BELLA VOCE (Women's Choir)

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0210 | Full Year | $10-12$ | 1 |

Prerequisite: None
Flight Path: None

The goals for this choir include individual vocal growth, musicianship, musical literacy, and an exposure to a variety of musical genres. The student's vocal ability is stretched through singing a variety of voice parts. Female vocal characteristics are explored daily through literature and warm-up exercises. The use of solfege and audition learned in previous years is utilized in reading music. Additional performance opportunities are afforded to Women's Chorus in addition to the three major concerts including contests. This choir is designed for all sophomore females and for juniors and seniors not enrolled in Concert Choir.

## CONCERT CHOIR

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0212 | Full Year | $10-12$ | 1 |

Prerequisite: Audition required with instructor prior to enrollment

Flight Path: BCA - Choral

The first priority for Concert Choir students is individual vocal growth and development. The second goal is that of working as an advanced musical ensemble. Other goals include an emphasis on music of many cultures and languages. Music of a much higher degree of difficulty is also presented. Additional performance opportunities are afforded Concert Chorus in addition to the three major concerts including festivals and contests. Students are strongly encouraged to leave the program with a variety of vocal solos prepared for future audition possibilities.


## SCIENCE 9-12

Students must take and pass at least three credits of science, including at least: one credit of Earth Science (or Physical Science if taken prior to 2023-24) and one credit of Biology (or AP Biology), and one credit of either Chemistry, Chemistry Concepts, or AP Physics. Students can earn college credit through the completion of Advanced Placement courses and concurrent enrollment (CE). Students planning to continue their education beyond high school should consider the high school science requirements of the post-secondary institution they wish to attend.

|  | 9th Grade | 10th Grade | 11th Grade | 12th Grade |
| :--- | :--- | :--- | :--- | :--- |
| Minimum Track | Earth Science | Biology | Chemistry Concepts |  |
| Recommended <br> College Track | Earth Science | Biology | Chemistry | Science Elective |
| Recommended <br> Science Field Track | Earth Science and <br> Biology | Chemistry | Science Elective | Science Elective |

EARTH SCIENCE

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0803 | Full Year | 9 | 1 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

Earth Science is a required course for studying astronomy, geology, hydrology, weather and climate, and environment and resources..


BIOLOGY

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0805 | Full Year | $9-12$ | 1 |
| Prerequisite: <br> Earth Science in Grade 9 |  |  |  |
| Flight Path: HAS - Foundation, HAS - Plant <br> Science, HAS - Animal Science 1\&2 |  |  |  |

Biology is a required course and covers the study of living things. The first semester includes a study of insects, techniques in using microscopes, experimental design and lab procedures, cellular structures and functions. Included in the second semester is a study of heredity and reproduction, ecology, evolution and the kingdoms of life. This semester includes some dissection work.
^ADVANCED PLACEMENT BIOLOGY - Weighted

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0840 | Full Year | $10-12$ | 1 |

Prerequisite: Instructor Approval and completed or concurrent Chemistry

Flight Path: None
*College Credit option available
This two-semester college introductory biology course will provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal with the rapidly changing science of biology. The contents of this course will include molecules and cells, heredity and evolution, and organisms and populations. Through this course, students will develop a conceptual framework for modern biology and an appreciation of science as a process.

CHEMISTRY CONCEPTS

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0811 | Full Year | $11-12$ | 1 |
| Prerequisite: Biology |  |  |  |
| Flight Path: None |  |  |  |

An introduction to the field of chemistry, this course connects chemical principles to observations in everyday life. This course covers the topics of measurement, atomic structure, the periodic table, chemical formulas, equations, reaction rates, chemical bonding, organic chemistry, and states of matter, nuclear chemistry and solutions. The course connects these chemistry topics to real world applications such as nutrition, water quality, materials, air pollutants and nuclear applications.


This is a full-year course in human anatomy and physiology. Course content will include topics on orientation, basic chemistry, biochemistry, cell, body tissues (epithelial, muscle, nervous), and body systems. The course will involve hands-on dissection, labs, and projects to understand the body systems.
HUMAN ANATOMY AND PHYSIOLOGY

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0830 | Full Year | $10-12$ | 1 |
| Prerequisite: Biology |  |  |  |
| Flight Path: HAS - Healthcare, <br> HAS - Animal Science 1 |  |  |  |

## ${ }^{\wedge}$ SURVEY OF CHEMISTRY - Weighted

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0825 | Full Year | $10-12$ | 1 |
| Prerequisite: Algebra II (May be concurrent) <br> Grade 10 with instructor approval |  |  |  |
| Flight Path: HAS - Foundation, HAS - <br> Healthcare HAS - Plant Science, HAS - Animal <br> Science 1, HAS - Chemistry |  |  |  |

MSCSE - 1110 Fundamentals of Chemistry

Chemistry is the study of the structure, composition and properties of matter and the changes that matter undergoes. This course places special emphasis on laboratory technique, problem solving skills and analytical reasons. Topics covered include: measurement, atomic structure, the periodic table, chemical formulas, and equations, ionic bonding, covalent bonding, organic chemistry, stoichiometry, and states of matter, and introduction to solutions. Chemistry is designed for students who will continue education beyond high school.

## HUMAN ANATOMY AND PHYSIOLOGY

^ADVANCED PLACEMENT CHEMISTRY weighted (Offered 24-25)

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0826 | Full Year | $11-12$ | 1 |
| Prerequisite: Chemistry |  |  |  |
| Flight Path: HAS - Foundation, HAS - <br> Healthcare HAS - Chemistry |  |  |  |

*College Credit option available

AP Chemistry will prepare students for the AP Exam to be taken in the spring. It will expand on concepts introduced in Chemistry and introduce new concepts to meet the requirements established by the College Board. First semester topics include: unit conversions, atoms, molecules, stoichiometry, thermochemistry, electron structure, periodic properties, chemical bonding, bond theories, states of matter, solutions, kinetics, and equilibrium. Second semester topics include: acids, bases, aqueous equilibria, thermodynamics, electrochemistry, nuclear chemistry, metals, nonmetals, coordination compounds, organic chemistry, and biochemistry. Twenty lab activities will be completed throughout the year. The AP Exam in Chemistry will be taken in May.
${ }^{\wedge}$ ADVANCED PLACEMENT PHYSICS - weighted

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0851 | Full Year | $11-12$ | 1 |

Prerequisite: PreCalculus or College Algebra. May by taken concurrently

Flight Path: HAS - Mathematics, MET - Engineering
*College Credit option available
AP Physics is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound, as well as introducing electric circuits. This course will prepare the student for the AP physics 1 test in May. Students will solve complex problems incorporating skills in algebra and trigonometry. It is essential that students enrolled in this course have a strong math background.
${ }^{\wedge}$ COLLEGE ORGANIC AND BIOCHEMISTRYweighted (Offered 25-26)

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0827 | Full Year | $11-12$ | 1 |
| Prerequisite: Chemistry |  |  |  |
| Flight Path: HAS - Foundation, HAS - <br> Healthcare HAS - Chemistry |  |  |  |

*MSCSE - CHEM 2518-4 Credits

This course is intended as a broad introduction to the basic principles of general, organic, and biochemistry. Atomic structure, radioactivity, ionic and covalent compounds, reactions, oxidation-reduction, solutions, acids and bases are covered through descriptive, theoretical, and laboratory topics. These principles are related to organic and biological chemistry throughout the course as it is a foundational course for students enrolled in the health related programs. However, this course is open to all students enrolled in any program. (Fulfills MNTC Goal 2 \& 3). Outline of major content areas: 1 . General chemistry: gas laws, acid/base chemistry, stoichiometry, and solutions 2. Organic chemistry: saturated and unsaturated hydrocarbons and oxygen derivatives 3 . Nuclear chemistry: equations, half-lives and applications 4. Biochemistry: carbohydrates, lipids, proteins and enzymes 5. Laboratory techniques.


Students must take and pass at least three and a half credits of social sciences for graduation. This includes one credit of World History, one credit of either US History or AP US History, at least a half credit of Economics (or a full year of AP Economics), at least a half credit of World Geography (or a full year of AP Human Geography), and one credit of American Government.

## WORLD HISTORY

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0921 | Full Year | 9 | 1 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

This is a required freshman course that will examine the history and historical contributions of major civilizations in Europe, Africa, Asia, and the America's. Students will develop an understanding of important people, places and discoveries that have helped shape the world today. The time frame covered will be approximately 10,000 B.C. through the middle 20th Century.

## UNITED STATES HISTORY

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0905 | Full Year | $10-12$ | 1 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

In this course students will gain a general overview of the story of America between the Civil War and present time. In the process, students will be exposed to the key figures, events, and laws that have shaped America's economic, political, and social systems. Individuals, concepts, and movements will be presented in a variety of different teaching methods. Primary resources, textbooks, guided readings, projects, and period music and art, will be used to achieve the course objectives.
ADVANCED PLACEMENT UNITED STATES
HISTORY - Weighted

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0906 | Full Year | 10 | 1 |
| Prerequisite: None |  |  |  |
| Flight Path: None |  |  |  |

*College Credit option available
This course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and material in U.S. history. Students will learn to assess historical materials- their relevance to a given interpretive problem, reliability, and importance- and to weigh the evidence and interpretations presented in a historical scholarship. Students will study American diversity, American Identity, culture and demographic changes. In addition, economic transformations, environment and globalization along with politics and citizenship, reform, religion, slavery and its legacies in North America and war and diplomacy will be studied. Taking the AP Exam in May is required.

## ECONOMICS

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0912 | Semester | $11-12$ | 0.5 |

Prerequisite: None
Flight Path: BCA - Accounting, HGE - Foundation, HGE - Government

This course begins with an introduction to basic economic terminology and systems. The remainder of the semester will cover both micro and macroeconomic concepts such as supply, demand, price, business organizations, sources of capital, gross domestic product, and business cycles. A market analysis project and a stock market simulation will also be included between the micro and macroeconomic units.
^ADVANCED PLACEMENT ECONOMICS weighted

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0910 | Full Year | $11-12$ | 1 |

Prerequisite: None
Flight Path: HGE - Government
*College Credit option available
AP Economics is a year-long course that will include both macroeconomics and microeconomics. At the end of the course students will be strongly persuaded to take both the macro and micro AP tests. The purpose of AP macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. The purpose of AP microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy.

## WORLD GEOGRAPHY

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0915 | Semester | $11-12$ | 0.5 |

Prerequisite: None
Flight Path: HGE - World Languages

This course will be an introduction to the basic concepts of culture and human geography. Special emphasis will be on major components of culture (sociological approach) as well as a unit on diversity involving a variety of resources. This may include guest speakers, which will represent various perspectives towards world cultures. An introductory unit on human geography will be followed by a group project, applying concepts to a specific country: Population patterns including development and migration, folk and popular culture, language, religion, ethnicity, political geography, and urban patterns are topics included in the study of human geography.
^ADVANCED PLACEMENT HUMAN GEOGRAPHY - weighted

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0917 | Full Year | $11-12$ | 1 |

Prerequisite: None
Flight Path: HGE - World Languages
*College Credit option available
The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. Students will also learn about the methods and tools geographers use in their science and practice. The aim of this course is to provide students with a learning experience equivalent to that obtained in most college introductory human geography courses.

AMERICAN GOVERNMENT AND POLITICS

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0918 | Semester | 12 | 0.5 |

Prerequisite: None
Flight Path: HGE - Government

American Government and Politics introduces students to our government system as created by the U.S. Constitution; and to the politics by which various groups (political parties as well as other special interest groups) try to manipulate and control that system. Students will see politics in action via frequent current events stories, and they'll study both domestic and foreign policy issues to better prepare students to be active voters and citizens.

## WORLD RELIGIONS

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0913 | Semester | $10-12$ | 0.5 |

Prerequisite: None
Flight Path: None

This course will examine the basic beliefs of the world's great religions and their history. Hinduism, Buddhism, Confucianism, Judaism, Christianity, and Islam will be the focus of study. The intent of this course is to help students gain a greater understanding of the spiritual/cultural value systems operating in the world. Guest speakers representing the religions will be utilized in this course. Additional topics of interest will include nature religions, shamanism, cults, death rites and rituals.

## HIGH SCHOOL PSYCHOLOGY

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0920 | Semester | $11-12$ | 0.5 |

Prerequisite: None
Flight Path: BCA - Foundation, BCA - Marketing, HGE - Foundation, HGE - Human Services, HGE - Government

This High School Psychology course will introduce students to basic concepts of psychology by emphasizing a scientific approach to studying human and animal behavior and thought processes. Major areas of study include: the scientific method, a biological versus environmental approach to understanding humans and animals, intelligence and learning, abnormal psychology, and social psychology. Students will research specific psychological theories and apply their findings in order to complete a project on one of the big names in contemporary psychology.
${ }^{\wedge}$ COLLEGE PSYCHOLOGY - weighted

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0920 | Semester | $11-12$ | 0.5 |
| Prerequisite: Reading comprehension score of <br> 78 or higher on the ACCUPLACER Test |  |  |  |
| Flight Path: BCA - Foundation, BCA - Marketing, <br> HGE - Foundation, HGE - Human Services, <br> HGE - Government |  |  |  |

*MSCSE - PSYC 1110-3 Credits

The study of psychology is the study of human behavior through scientific research and theory. It is a science that applies to everyone's personal and workplace life. In this class some of the topics that will be introduced include the history of psychology, consciousness, learning theories, problem solving, memory, intelligence, motivation, lifespan development, personality, and systems of social relationships. This is a class with concurrent enrollment with MN State College Southeast and students will earn 3 college credits in Intro to Psychology.

Students in these courses will communicate in a variety of ways using German leading them to proficiency in the language. Additionally, they will gain knowledge and understanding of German speaking cultures. Finally, they will develop insight into the nature of language and culture. A variety of activities will be used to develop listening, speaking, reading and writing skills in the target language. If students want to be eligible for the college credit German class at the high school, they must begin Level I German in either 8th or 9th grade. (The college credit class is the German IV/ College in the Schools credit program.)

## GERMAN I

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0640 | Full Year | $8-12$ | 1 |

Prerequisite: None

Flight Path: HGE - German

This is the foundation of the study of this language. The first semester teaches the sound system of the German language and is an introduction to the culture of German speaking countries. The vocabulary deals with personal introductions, vacationing, food, family, numbers, and classroom items. Semester two continues with vocabulary concerning shopping, clothing, simple mathematics, and geography. Short conversations in German are practiced and presented with classmates.

## GERMAN II

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0642 | Full Year | $9-12$ | 1 |
| Prerequisite: German I |  |  |  |
| Flight Path: HGE - German |  |  |  |

German II is a continuation of German I with more stress on reading and writing. The student will become acquainted with the history, geography, manners, and customs of the German speaking countries. After a review of structures learned in German I, students will apply these to oral and written work. Students will write and present to the class conversations and skits. Students will use the German language in classroom situations. Students will write reports in German on various topics.
${ }^{\wedge}$ GERMAN III - Weighted

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0644 | Full Year | $10-12$ | 1 |
| Prerequisite: German II |  |  |  |
| Flight Path: HGE - German |  |  |  |

This course will review and study basic German grammar and vocabulary. Students will continue to read in German and participate in group projects to demonstrate their increasing knowledge and skills. Students will write short explanatory and descriptive themes. Some of the themes include travel, family, jobs and careers, free time, and getting around in the city. They will attempt to use only German in classroom activities.
${ }^{\wedge}$ GERMAN IV - weighted

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0649 | Full Year | $11-12$ | 1 |
| Prerequisite: German III |  |  |  |
| Flight Path: None |  |  |  |

*UofM - GERM 1003/1004-10 Credits

A course syllabus and the grading system from the University will be used. There will be advanced work in composition, conversation and grammar. Topics include travel, housing, film, Berlin, social and cultural differences, and environment. The material for reading and discussion will include classical literature as well as contemporary themes.

Students in Spanish courses will communicate in a variety of ways leading them to proficiency in the language. A variety of activities will be used to develop listening, speaking, reading and writing skills in the target language. Additionally, they will gain knowledge and understanding of Spanish speaking cultures. Students with prior knowledge/skills of Spanish should consult the department to determine the appropriate entry level. If students want to be eligible for the college credit Spanish class, they MUST begin Spanish in 8th grade.

## SPANISH I

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0650 | Full Year | $8-12$ | 1 |
| Prerequisite: None |  |  |  |
| Flight Path: HGE - Spanish |  |  |  |

This is the foundation of the study of this language. This course focuses on the sound system of the Spanish language and is an introduction to the culture of Spanish speaking countries. The vocabulary deals with personal introductions, numbers, classroom items, activities and family.

SPANISH II

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0652 | Full Year | $9-12$ | 1 |

Prerequisite: Spanish I
Flight Path: HGE - Spanish

Spanish II is a continuation of Spanish I with more stress on reading and writing. The student will become acquainted with the history, geography, manners, and customs of the Spanish speaking countries. The topics for vocabulary are school activities, household items and chores, clothing, shopping, travel, and community service. Students will use the Spanish language in classroom situations.
^SPANISH III - Weighted

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0654 | Full Year | $10-12$ | 1 |
| Prerequisite: Spanish II |  |  |  |
| Flight Path: HGE - Spanish |  |  |  |

This course will review and study basic Spanish grammar and vocabulary. Students will continue to read in Spanish and participate in projects to demonstrate their increasing knowledge and skills. Students will write short explanatory and descriptive essays. Some of the themes include food, free time, and getting around in the city. They will attempt to use only Spanish in classroom activities.
${ }^{\wedge}$ SPANISH IV - Weighted

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0656 | Full Year | $11-12$ | 1 |
| Prerequisite: Spanish III |  |  |  |
| Flight Path: HGE - Spanish |  |  |  |

This course will review and study advanced Spanish grammar and vocabulary. Students will continue to read in Spanish and participate in group projects to demonstrate their increasing knowledge and skills. Students will write short essays and speak Spanish in classroom activities.
^SPANISH V - Weighted

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0659 - with <br> college credit | Full Year | 12 | 1 |

Prerequisite: Spanish IV
Flight Path: None
*UofM - SPAN 1003-5 Credits

A course syllabus and grading system from the University of Minnesota will be used. The material for reading and discussion will include music selections, art and literature. Students will speak and conduct class discussions in Spanish. Additional advanced level grammar and vocabulary will be part of this course.


## WORLD LANGUAGES 9-12

## (DAKOTA)

## DAKOTA LANGUAGE \& CULTURE I

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0665 | Full Year | $9-12$ | 1 |

Prerequisite: None
Flight Path: HGE - Dakota Culture

This is an introductory course in Dakota language and culture. The focus areas will be learning Dakota sounds, the alphabet, vocabulary, language structure, and basic grammar. Learners will be able to introduce themselves, learn relative terms and be able to identify kinship within their own families. Learners will be able to understand and speak basic phrases.

DAKOTA LANGUAGE \& CULTURE II

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0666 | Full Year | $10-12$ | 1 |

Prerequisite: None
Flight Path: HGE - Dakota Culture

This is a beginning level course in Dakota language and culture. The focus areas will be in expanded vocabulary, language structure, grammar and basic verb conjugations. Learners will begin to be able to speak basic Dakota in the first, second and third person. Learners will be able to identify Dakota place names in Minnesota, Wisconsin and be able to pronounce these places in the Dakota language.

DAKOTA LANGUAGE \& CULTURE III

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
|  | Full Year | $11-12$ | 1 |
| Prerequisite: Dakota Language and Culture II |  |  |  |
| Flight Path: HGE - Dakota Culture |  |  |  |

The Dakota Immersion level 3 course is intended for students to learn conversational Dakota through community language learning methods. The emphasis is primarily on oral conversations using Dakota vocabulary, expressions, and simple sentences, using contemporary and traditional Dakota perspectives. This Course will have a written component only to support verbal and auditory learning to take the learner from Basic Beginner to Basic intermediate.

## DAKOTA LANGUAGE \& CULTURE IV

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
|  | Full Year | 12 | 1 |
| Prerequisite: Dakota Language and Culture III |  |  |  |
| Flight Path: None |  |  |  |

Coming Fall of 2025.

## ADDITIONAL CREDIT PROGRAMS

## WINGER FLIGHT PATH INTERNSHIP

| Course <br> number | Course <br> Length | Grade | Credits |
| :--- | :--- | :--- | :--- |
| 0128 | Semester | 12 | 0.5 |

> Prerequisite: Completed Flight Path
> Recommended, Application to program

Flight Path: None

The internship course is available to second semester seniors through an application process. The goal is to connect students with professionals in their area of vocational interest on extended job shadows where the student reports to the business site for class to see what the day-to-day roles are within our local businesses to help students better understand the roles of different professionals and get their expert guidance on next steps after graduation. Not all students who apply will get an internship due to business availability, schedule conflicts, and limited course spaces. Applicants should be taking related coursework or engaged in related extracurriculars to strengthen their application.

## Non-Discrimination Statement

The School District does not unlawfully discriminate on the basis of race, color, creed, religion, national origin, sex, marital status, parental status, status with regard to public assistance, disability, age, or sexual orientation, including gender identity and expression. The School District also ensures a free appropriate public education for students with disabilities, including regular or special education and related aides and services.

## Designations

The School Board has designated the following individuals as the School District's human rights officers:

| Human Rights Officer | Human Rights Officer |
| :--- | :--- |
| Chris Picha | Martina Wagner, Superintendent |
| Red Wing Public Schools | Red Wing Public Schools |
| 2451 Eagle Ridge Drive | 2451 Eagle Ridge Drive |
| Red Wing, MN 55066 | Red Wing, MN 55066 |
| 651-385-4511 | $651-385-4502$ |
| ckpicha@rwps.org | mtwagner@rwps.org |

The School Board has designated the following people to coordinate the school district's efforts to comply with and carry out its responsibilities under Title IX:

| Title IX Coordinator | Alternate |
| :--- | :--- |
| Chris Picha | Martina Wagner, Superintendent |
| Red Wing Public Schools | Red Wing Public Schools |
| 2451 Eagle Ridge Drive | 2451 Eagle Ridge Drive |
| Red Wing, MN 55066 | Red Wing, MN 55066 |
| 651-385-4511 | $651-385-4502$ |
| ckpicha@rwps.org | mtwagner@rwps.org |

The school board has designated the following people to coordinate the school district's efforts to comply with and carry out its responsibilities under the Americans with Disabilities Act (ADA) and Section 504:

| ADA and Section 504 Coordinator | Alternate |
| :--- | :--- |
| Cherie Johnson, Executive Director | Kayla Awolope, Assistant Special Education Director |
| Goodhue County Education District | Red Wing Public Schools |
| 395 Guernsey Lane | 2451 Eagle Ridge Drive |
| Red Wing, MN 55066 | Red Wing, MN 55066 |
| 651-388-4441 | $651-385-4500$ |
| cjohnson@gced.k12.mn.us | klawolope@rwps.org |

