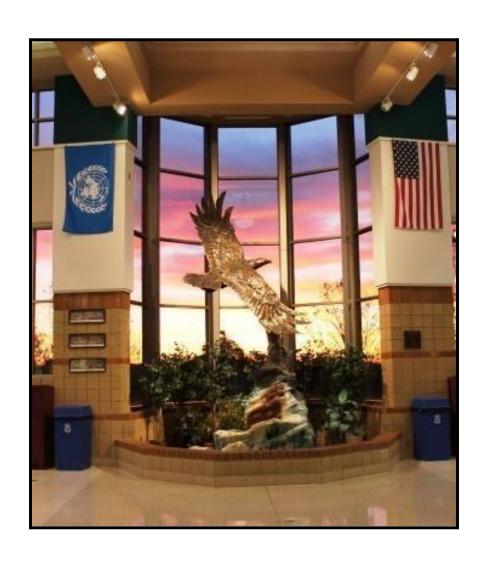
# RED WING HIGH SCHOOL 8-12 COURSE CATALOG 2024 - 2025





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# **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.

		Family and Consumer Science	<u>25</u>
Agriculture	17	501 Family Living	
311 Greenhouse Technology		502 Child Psychology 1	
315 Fish and Wildlife Management		526 Child Psychology 2	
320 Aquaculture		504 Interior Design	
322 Companion Animals		508 Nutrition	
306 Floriculture		511 Introduction to Culinary Arts	
307 Landscape Design		512 Advanced Culinary Arts	
323 Large Vet Science		513 International Culinary	
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<u>Art</u>	<u> 19</u>	525 Flight Paths Capstone	
350 Foundations of Art			
352 Media Arts		Health/Physical Education	28
353 Survey of Two-Dimensional Art		215 Physical Education	
356 Survey of Three-DimensionalArt		219 Health	
354 Drawing and Painting I		208 Individual & Dual Sports I	
355 Drawing and Painting II			Course****
362 Drawing and Painting III		214 Lifetime Fitness **** New	Course****
357 Ceramics and Sculpture I		209 Intro Strength & Fitness	
358 Ceramics and Sculpture II		211 Team Sports	
361 Ceramics and Sculpture III		212 Team Sports II **** New 0	Course****
363 ^Advanced Placement Studio Art		223 Unified Sports	
		818 Nursing Assistant	
Business Education	21		
111 Introduction to Marketing and Busines	SS	Industrial Technology Education	<u>31</u>
113 Market Management		540 Introduction to Woodworking	
114 Marketing Education OJT		541 Creative Woodcrafts	
115 Sports & Entertainment Marketing		542 Machine Woodworking I	
423 Personal Business Law		543 Machine Woodworking II	
402 Computer Applications		1544/2544 Cabinetmaking I	
403 Advanced Computer Applications		1545/2545 Cabinetmaking II	
404 Computer Science & Programming		550 Independent Woodworking	
410 Accounting I		595 Industrial Enterprise Practicum	
411 Accounting II		1550/2500 Construction Tech	
412 Accounting III		555 Introduction to Metalworking	
413 Accounting IV		556 Hot Metal Technology	
455 Video Game Design **** New Cours	e****	557 Metals Technology I	
		1560/2560 Metal Fabrication I	

563 Creative Metalwork 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	
	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 ^Civil Engineering and Architecture	851 ^Advanced Placement Physics	
1583/2583 ^Digital Electronics	827 ^College General Organic Chemi	stry
ŭ	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 ^CNC Precision Machining 2	921 World History	
	905 United States History	
Language Arts 37	906 ^Advanced Placement United Sta	tes 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 Economic	2
606 ^Advanced Placement Literature and	917 ^Advanced Placement Human Ge	
Composition	918 American Government and Politic	0 , ,
608 ^Advanced Placement Language and	910 American Government and Folitic	,5
Composition	World Languages	<b>52</b>
621 Mythology	640 German I	32
1605 British Literature	642 German II	
0619 Global Literature	644 ^German III	
623 Theater 629 Native Literature	649 ^German IV	
629 Native Literature	658 Spanish for Heritage Learners	
Mathematica	650 Spanish I	
Mathematics 41	652 Spanish II	
705 Intermediate Algebra	654 ^Spanish III	
710 Geometry	656 ^Spanish IV	-11- 01:4
713 Honors Geometry	659 'Senior Spanish/College in the Se	chools 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 **!	
722 ^Intro to Stats	Dakota Language & Culture IV **	Coming 25-26
724 ^College Algebra		
725 ^Honors Placement PreCalculus	Additional Credit Programs	<u>55</u>
729 ^Advanced Placement Calculus	128 Winger Flight Path Internship	
Music 44		
200 Freshman Band		
202 Symphonic Band		
203 Concert Band		

^ Indicates the course weighted for GPA

205 Jazz Lab 208 Choir 9 210 Bella Voce 212 Concert Choir

#### 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**

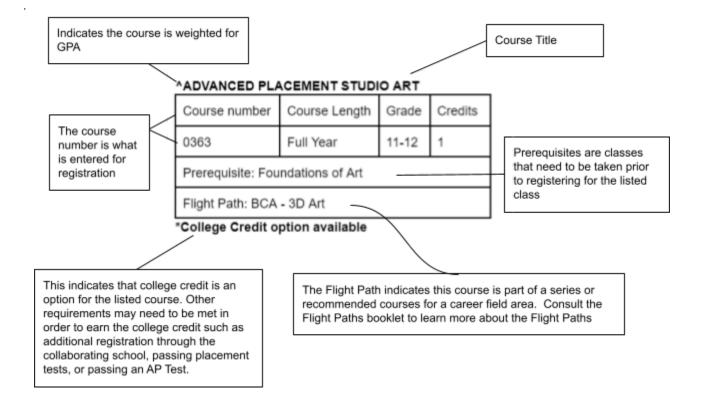
#### SPECIAL MESSAGE TO STUDENTS AND THEIR PARENTS/GUARDIANS

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.



# **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 -Language Arts 10 or Honors Language Arts 10 -Two additional Credits of Language Arts Electives
Social Sciences	3.5	-World History -US History -World Geography or AP Human Geography and -Economics or AP Economics -American Government during the senior year.
Mathematics	3	-Intermediate Algebra or Honors Algebra -Geometry or Honors Geometry -Algebra II or Honors Algebra II
Science	3	-Physical Science or Honors Physical Science for Grad Classes 2023-26 -Earth Science for Grad Classes 2027 and beyond -Biology or AP Biology and -Chemistry, physics or Honors Chemistry
Art	1	-Any Course in the Art or Music Department -Interior Design -Creative Metalworking or Creative Woodworking -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	

### **GENERAL INFORMATION FOR STUDENTS AND FAMILIES**

# **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.

#### 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 Biology AP United States History
AP Language and Composition AP Chemistry AP Economics
AP Literature and Composition AP Physics AP Human Geography
AP Calculus

### 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

#### <u>Agriculture</u>

• 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

- <u>Sciences</u>
- 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 <u>full credit load</u>, 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<sup>th</sup> 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 Years

(1 yr Biology, 1 yr. Phys. Science/Earth Science, 1

Chemistry or Physics with labs)

Social Science - 3 Years

World Language – 2 Years

(2 years of same world language)

Suggested Electives – 1 year (Fine Arts or World Culture)

# MN Community & Technical Colleges

**Admission Requirements** 

Students must possess a High School Diploma, GED, or pass the Ability to Benefit Test. The following high school classes are **strongly recommended**:

English - 4 Years (Including oral and written communications)

Math - 3 Years (Algebra, Geometry, & Alg II)

Science - 2 Years

(Biology, Principles of Technology Physics, Chemistry)

Social Science - 4 Years

Suggested Electives: (Specific to career plans)

Students must possess a High School diploma, GED, or demonstrate the potential for being a successful college student.

#### **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.

#### **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<sup>th</sup> 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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.

### **8TH GRADE REQUIRED COURSES**

#### LINEAR ALGEBRA

Course number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 <sup>th</sup> Grade	
Course	Course Name	Course
Content		Number
English*	Lang 9	
Math*	Int Algebra	
Science	Earth Science	
Social	World History	921
Studies		
Gym 9		
Elective		

	10 <sup>th</sup> Grade		
Content	Course Name	Course Number	
English*	Lang 10		
Math*	Geometry		
Science*	Biology	805	
Social	US History	905	
Studies*	•		
Health			
Elective			

	11 <sup>th</sup> Grade	
Course	Course Name	Course
Content		Number
English		
English		
Math*	Algebra II	
Science*	Chemistry	
Economics*		
World		
Geography*		
Flight Paths	Flight Paths	525
Capstone	Capstone	
Elective		

	12 <sup>th</sup> Grade	
Course	Course Name	Course
Content		Number
English		
English		
US Gov	US Government	918
Elective		

<sup>\* -</sup> 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

### **AGRICULTURE 9-12**

#### **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)

(Officied 25-20)				
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				

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

EANDSCAFE DESIGN				
Course number	Course Length	Grade	Credits	
0307	Semester	10-12	0.5	
Prerequisite: None				
Flight Path: HAS - Plant Science				

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.





#### **ART 9-12**

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				

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**

SOLVET 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 Level 2 - 0355 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 Level 2 - 0358 Level 3 - 0361	Semester	10-12	0.5	
Prerequisites: 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 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, BCA - 2D Arts, BCA - 3D Arts, BCA - Band, 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**

COMI OTER COLLICE AND TROCKAMIMING				
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, 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)

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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.

### 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 \$100k 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				

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

INTRODUCTION TO COLINARY ARTS			
Course number	Course Length	Grade	Credits
0511	Semester	9-12	0.5
Prerequisite: None			
Flight Path: HGE - Culinary			

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			

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

#### **HEALTH AND PHYSICAL EDUCATION 9-12**

#### Lifetime Fitness

Course number	Course Length	Grade	Credits	
0214	Semester	9-12	0.5	
Prerequisite: None				
Flight Path: HAS - Sports Medicine				

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				
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.

#### 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			

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 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.

#### 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			

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				

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.

#### (Metalworking Technology)

#### 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				

#### \*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.

#### (Metalworking Technology)

#### 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.

### **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				

<sup>\*</sup>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

ADVANGED I GIVEN				
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.

# (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				
Flight Path: MET - Transportation				

# \*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.



#### (Project Lead the Way)

#### **^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.

#### **^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.

#### **^DIGITAL ELECTRONICS - weighted**

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

<sup>\*</sup>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.

#### (Machining)

# ^ENGINEERING DRAWINGS 1/PRECISION MEASURING - weighted

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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

#### \*MSCSF - 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.

### ^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.



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				

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.

# **^HONORS 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.

#### **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

GLOBAL LITERATORE				
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 number	Course 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**

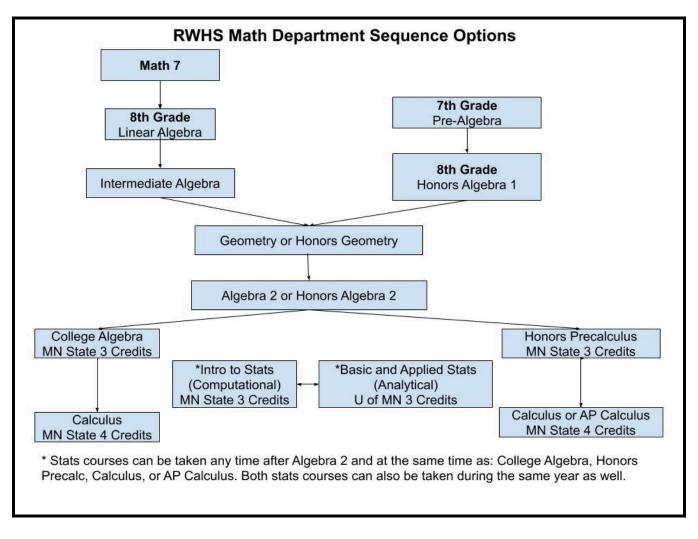
Course number	Course Length	Grade	Credits	
0629	Semester	11-12	0.5	
Prerequisite: None				
Flight Path: HGE - Dakota Culture				

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.



# **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 Algebra I				
Flight Path: MET - Foundation, MET - Metals, 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** 

THONORS ALGEBRA II - Weigilleu				
Course number	Course Length	Grade	Credits	
0716	Full Year	10-12	1	
Prerequisite: Intermediate Algebra or Honors Algebra I, Honors Geometry or Geometry				
Flight Path: None				

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.

# **MATHEMATICS 9-12**

# ^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.

#### ^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.



# ^HONORS 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.

#### ^CALCULUS - weighted

OALGGEGG - 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

STIMETIONIC BAND				
Course number	Course Length	Grade	Credits	
0202	Full Year	10-12	1	
Prerequisite: Successful Completion of Freshman 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**

001102111 27 1112				
Course number	Course Length	Grade	Credits	
0203	Full Year	11-12	1	
Prerequisite: Successful Completion of Symphonic Band and/or Permission of Instructor through 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 Band and/or Permission of Instructor through placement exam.					
Flight Path: BCA	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.

# MUSIC 9-12

#### **CHOIR 9**

Course number	Course 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 number	Course 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 number	Course 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 College Track	Earth Science	Biology	Chemistry	Science Elective
Recommended Science Field Track	Earth Science and Biology	Chemistry	Science Elective	Science Elective

#### **EARTH SCIENCE**

Course number	Course 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**

BIOLOGI				
Course number	Course Length	Grade	Credits	
0805	Full Year	9-12	1	
Prerequisite: None. May be concurrent with Earth Science in Grade 9				
Flight Path: HAS - Foundation, HAS - Plant 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.

# **SCIENCE 9-12**

# ^ADVANCED PLACEMENT BIOLOGY - Weighted

Course number	Course 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**

OHEIMIOTICE CONCENTS				
Course number	Course 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.



# **^SURVEY OF CHEMISTRY - Weighted**

Course number	Course Length	Grade	Credits
0825	Full Year	10-12	1

Prerequisite: Algebra II (May be concurrent) Grade 10 with instructor approval

Flight Path: HAS - Foundation, HAS -Healthcare HAS - Plant Science, HAS - Animal 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**

Course number	Course Length	Grade	Credits
0830	Full Year	10-12	1
Prerequisite: Biology			

Flight Path: HAS - Healthcare.

HAS - Animal Science 1

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.

# ^ADVANCED PLACEMENT CHEMISTRY - weighted (Offered 24-25)

weighted (Official 24-20)				
Course number	Course Length	Grade	Credits	
0826	Full Year	11-12	1	
Prerequisite: Chemistry				
Flight Path: HAS - Foundation, HAS - 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.

# ^ADVANCED PLACEMENT PHYSICS - weighted

Course number	Course 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

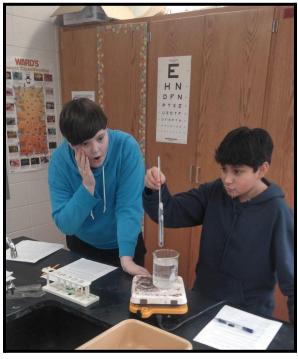
AP Physics is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound, as well as introducing electric circuits. This course will prepare 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.

# ^COLLEGE ORGANIC AND BIOCHEMISTRYweighted (Offered 25-26)

weighted (Ohered 23-20)				
Course number	Course Length	Grade	Credits	
0827	Full Year	11-12	1	
Prerequisite: Chemistry				
Flight Path: HAS - Foundation, HAS - 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.



# **SOCIAL SCIENCE 9-12**

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 number	Course 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 number	Course 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

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Course number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course Length	Grade	Credits
0917	Full Year	11-12	1
Prerequisite: None			
Flight Path: HGE - World Languages			

<sup>\*</sup>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.

# **SOCIAL SCIENCE 9-12**

#### **AMERICAN GOVERNMENT AND POLITICS**

Course number	Course 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 number	Course 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 number	Course Length	Grade	Credits
0920	Semester	11-12	0.5
Prerequisite: None			

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.

^COLLEGE PSYCHOLOGY - weighted

Course number	Course Length	Grade	Credits
0920	Semester	11-12	0.5

Prerequisite: Reading comprehension score of 78 or higher on the ACCUPLACER Test

Flight Path: BCA - Foundation, BCA - Marketing, HGE - Foundation, HGE - Human Services,

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.

# (GERMAN)

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 number	Course 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 number	Course 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.

#### **^GERMAN III - Weighted**

Course number	Course 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.

#### **^GERMAN IV - weighted**

Course number	Course 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.

# **WORLD LANGUAGES 9-12**

# (SPANISH)

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 number	Course 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 number	Course 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 number	Course 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.

# **^SPANISH IV - Weighted**

Course number	Course 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.

# **WORLD LANGUAGES 9-12**

# (SPANISH)

# **^SPANISH V - Weighted**

Course number	Course Length	Grade	Credits
0659 - with college credit	Full Year	12	1
Prerequisite: Spanish IV			

<sup>\*</sup>UofM - SPAN 1003 - 5 Credits

Flight Path: None

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 number	Course 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 number	Course 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 number	Course 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 number	Course 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 number	Course 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**

#### **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 Red Wing Public Schools 2451 Eagle Ridge Drive Red Wing, MN 55066 651-385-4511 ckpicha@rwps.org	Martina Wagner, Superintendent Red Wing Public Schools 2451 Eagle Ridge Drive Red Wing, MN 55066 651-385-4502 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 Red Wing Public Schools 2451 Eagle Ridge Drive Red Wing, MN 55066 651-385-4511 ckpicha@rwps.org	Martina Wagner, Superintendent Red Wing Public Schools 2451 Eagle Ridge Drive Red Wing, MN 55066 651-385-4502 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