

**RED WING HIGH SCHOOL**  
**9-12 COURSE CATALOG**  
**2021 - 2022**



# Red Wing Public Schools

## **The Mission of Red Wing High School**

**Respect, Civility and Independence  
for life-long learning.  
We prepare students for the rest of their  
life.**

### ADMINISTRATION

Karsten Anderson, Superintendent  
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## To Our Students and Parents

**The Program of Studies 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 Some courses may be withdrawn due to insufficient enrollment or the lack of sufficient staff to adequately teach the course.**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 PROGRAM OF STUDIES HANDBOOK

#### 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 seven courses for credit each semester. You may register up to eight courses per semester.

#### HOW TO USE THE PROGRAM OF STUDIES HANDBOOK

1. Most of this guide consists of course descriptions. The courses are organized by departments.
2. Each course for students in grades 7-12 has its own number. These courses are 18 weeks in length and earn one-half credit toward graduation, unless otherwise stated. While most courses are a semester in length and generate a one-half credit, some courses are designed for a full year and generate a full credit.
3. Grade level requirements are indicated for each course.
4. Some courses have prerequisites. For example: Hot Metals or Creative Wood cannot be taken before Introduction to Metals or Introduction to Woods. **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.
6. Each course includes a “weight” identifier. “Weighted” identifies courses that earn weighted GPA and class rank.

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## RWHS Graduation Requirements

In order to be eligible for graduation, students must meet the following graduation requirements:

Subject Area Department	Class of 2022 & Beyond
Language Arts	4
Social Sciences*	3.5
Mathematics**	3
Science***	3
Art****	1
Health	.5
Physical Education	.5
Adulting 101	.5
Electives*****	12
<b>Total Credits</b>	<b>28</b>

**\*SOCIAL SCIENCES** - Three and one half (3.5) credits must be earned in Social Sciences including a full year of World History and United States History. In addition, students must complete one semester each of:

- World Geography or a full year of AP Human Geography and
- Economics or full year AP Economics
- American Government during the senior year.

**\*\* MATHEMATICS**- Three (3.0) credits must be earned in Mathematics including:

- Intermediate Algebra or Honors Algebra-Full Year
- Geometry or Honors Geometry-Full Year
- Algebra II or Honors Algebra II- Full Year

**\*\*\* SCIENCE** - Three (3) credits must be earned in Science.

- Physical Science or Honors Physical Science and
- Biology or AP Biology and
- Chemistry, physics or Honors Chemistry

**\*\*\*\* ART** - One credit of art may be fulfilled through the following courses:

Department	Course(s)	Page
Art	All Courses	25
Family and Consumer Science	Interior Design	30
Industrial Technology Education	Creative Woodcrafts & Creative Metalwork	33 & 35
Language Arts	All Theater Courses	39
Music	All Courses	42 & 43

**\*\*\*\*\* ELECTIVES** - Elective credits may be earned through any department.

## GENERAL INFORMATION FOR STUDENTS AND PARENTS

### 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.

#### Weighted Grades and Class Rank

Students taking classes in Advanced Placement, Project lead the Way, College-in-the-Schools (CIS), 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 valued of course grades by the number of courses taken. Courses taken for “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

College credit options are available to students on the RWHS campus. **College in the Schools (CIS) and Concurrent Enrollment Courses (CEC)** are available to eligible juniors and seniors. 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). College credit can be earned through Advanced Placement exams, College in the Schools (World Languages & Basic and Applied Statistics), Concurrent Enrollment (Psychology and AP Lang & Comp, AP Lit & Comp, and Organic Chemistry, Intro to Stats, Pre Calculus, Calculus, College Algebra and the machining program), ProStart (Food Service Industry), and Project Lead the Way engineering courses. ^ **Denotes a college credit eligible course.**

### **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.

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

Eligible sophomores, 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.

### **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. Participants can focus their learning toward

- 1) Employment that begins immediately after completion of two years of post-secondary study leading to a diploma or an A.A.S. Degree or
- 2) Toward further education that could result in a baccalaureate.

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. The courses in this registration guide that are flagged with an (\*) means they are "**Articulated Agreement Available**" courses that lead to specific post-secondary majors in technical fields. At Red Wing High School, 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.

### **Precision Exams**

Unlimited access to over 170 industry-aligned certification exams, and detailed reports for skill assessments that help you demonstrate growth and validate knowledge. Welcome to the standard for measuring student outcomes and preparing students for a career. Precision Exams are available in most of our career and technical education departments, including, Agriculture, Business, Family and Consumer Science, and Industrial Technology. See instructors for more information about how Precision Exams can help you with your post-secondary planning.

## Credit Accumulation

Credit for courses taken through educational programs other than Red Wing High School will be granted and included on the transcript *with Counselor approval*. Minnesota State law restricts Post-Secondary Enrollment Options to a maximum of a full credit load, which are 8 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

<u>MN State University Admission Requirements</u>	<u>MN Community &amp; Technical College Admission Requirements</u>
<p><b>English - 4 Years</b>  <b>Math - 3 Years (U of M requires 4 years)</b>                      (Algebra, Geometry, Alg II)  <b>Science - 3 Years</b>                      (1 yr Biology, 1 yr. Phys. Science, 1 Chemistry or Physics with labs)  <b>Social Science - 3 Years</b>                      (Geography and U.S. History)  <b>World Language – 2 Years</b>                      (2 years of same world language)  <b>Suggested Electives – 1 year</b>                      (Fine Arts or World Culture)</p>	<p>Students must possess a High School Diploma, GED, or pass the Ability to Benefit Test.                      The following high school classes are <b>strongly recommended</b>:  <b>English - 4 Years</b> (Including oral and written communications)  <b>Math - 3 Years</b> (Algebra, Geometry, &amp; Alg II)  <b>Science - 2 Years</b>                      (Biology, Principles of Technology Physics, Chemistry)  <b>Social Science - 4 Years</b>  <b>Suggested Electives:</b> (Specific to career plans)</p> <p>Students must possess a High School diploma, GED, or demonstrate the potential for being a successful college student.</p>

## College Visits

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

## Military Service

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



## On-Line Learning

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

## ACTIVITIES

### NCAA Eligibility

#### KNOW THE RULES:

##### Core Courses

- **Starting August 1, 2008, 16 core courses** will be required for **NCAA Division I only**. This rule applies to any student first entering any Division I college or university on or after August 1, 2008. See the chart below for the breakdown of this 16 core-course requirement.
- **14 core courses are required in NCAA Division II**. See the breakdown of core-course requirements below. Please note, Division II will require 16 core courses beginning August 1, 2013.
- **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.**

<p><b>Division I</b></p> <p><b>16 Core-Course Rule</b></p> <p><b>16 Core Courses:</b></p> <p>4 years of English.</p> <p>3 years of mathematics (Algebra I or higher).</p> <p>2 years of natural/physical science (1 year of lab if offered by high school).</p> <p>1 year of additional English, mathematics or natural/ physical science.</p> <p>2 years of social science.</p> <p>4 years of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy)</p>	<p><b>Division II</b></p> <p><b>14 Core-Course Rule</b></p> <p><b>14 Core Courses:</b></p> <p>3 years of English.</p> <p>2 years of mathematics (Algebra I or higher).</p> <p>2 years of natural/physical science (1 year of lab if offered by high school).</p> <p>2 year of additional English, mathematics or natural / physical science.</p> <p>2 years of social science.</p> <p>3 years of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy)</p>
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### NAIA Eligibility

NAIA Eligibility Center at [PlayNAIA.org](http://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):

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>● Aerie</li> <li>● Anime Club</li> <li>● Chess club</li> <li>● Dramatics</li> <li>● Circle of Friends</li> <li>● Environmental Advocacy Club</li> <li>● Fall/Spring Play</li> <li>● Future Farmers of America (FFA)</li> <li>● Gender Sexuality Alliance (GSA)</li> <li>● Health Occupations Students of America (HOSA)</li> <li>● Interact</li> <li>● International Club</li> <li>● Key Club</li> <li>● Knowledge Bowl</li> </ul> | <ul style="list-style-type: none"> <li>● Math League</li> <li>● Musical Organizations: Ovation, Jazz Band, Musical</li> <li>● Native American Student Association (NASA)</li> <li>● National Honor Society (NHS)</li> <li>● Performing Arts Club</li> <li>● Robotics</li> <li>● Science Olympiad</li> <li>● Skills USA</li> <li>● Speech Competition</li> <li>● Student Council</li> <li>● Student Ambassadors</li> <li>● Sieve and Sand Literary Magazine</li> </ul> |
|---|---|

High School activities administered by Community Education and Recreation:

- Nordic Skiing
- Ultimate Frisbee
- Trap Team

## 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 –
Cross Country - Boys	Basketball – Girls	Boys
Cross Country - Girls	Cheerleading	Golf – Boys
Football	Gymnastics – Girls	Golf – Girls
Soccer - Boys	Hockey – Boys	Softball – Girls
Soccer - Girls	Hockey – Girls	Tennis – Boys
Swimming/Diving –	Swimming/Diving –	Track – Boys
Girls	Boys	Track – Girls
Tennis – Girls		

Volleyball		
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## GRADES 9-12 ACADEMIC DEPARTMENT COURSE OFFERINGS

### Grades 9-12 Course Planning Guide

#### Agriculture

315 Fish and Wildlife Management	23
307 Landscape Design	23
311 Greenhouse Technology	23
306 Floriculture	23
322 Companion Animals	23
323 Large Vet Science	24
320 Aquaculture	24
321 Aquaculture II	24
326 Ag On-the-Job-Training/ College Readiness	24
300 Agriculture Independent Study	24

#### Art

350 Foundations of Art	25
352 Media Arts	25
360 Media Arts 2	25
353 Survey of Two-Dimensional Art	25
356 Survey of Three-Dimensional Art	25
354 Drawing and Painting I	26
355 Drawing and Painting II	26
362 Drawing and Painting III	26
357 Ceramics and Sculpture I	26
358 Ceramics and Sculpture II	26
361 Ceramics and Sculpture III	26
363 ^Advanced Placement Studio Art	26

#### Business Education

110 Retail Management & Entrepreneurship	27
111 Introduction to Marketing and Salesmanship	27
113 Market Management	27
114 Marketing Education OJT	27
115 Sports & Entertainment Marketing	28
400 Information Processing I	28
402 Computer Applications	28
404 Computer Science & Programming	29
403 Advanced Computer Applications	28
410 Accounting I	30
411 Accounting II	30
412 Accounting III	30
413 Accounting IV	30
423 Personal Business Law	29
510 Personal Finance	30

#### Family and Consumer Science

501 Family Living	30
502 Child Psychology	30
504 Interior Design	30
30 Adulting 101	
511 Introduction to Culinary Arts	31
512 Advanced Culinary Arts	31
513 International Culinary	31

514 Gourmet To Go	31
523 Baking & Pastry Arts	31
508 Nutrition	31
<b>Health/Physical Education</b>	
215 Physical Education	32
219 Health	32
208 Individual & Dual Sports	32
209 Intro Strength & Fitness	32
<b>Industrial Technology Education</b>	
<b>Woodworking Technology</b>	
540 Introduction to Wood Technology	33
541 Creative Woodcrafts	33
542 Machine Woodworking I	33
543 Machine Woodworking II	33
544 Cabinetmaking I	34
545 Cabinetmaking II	34
550 Independent Woodworking	34
<b>Metalworking Technology</b>	
555 Introduction to Metalworking Technology	34
556 Hot Metal Technology	34
557 Metals Technology I	34
558 Metals Technology II	35
563 Creative Metalwork	35
565 Independent Machine Shop	35
<b>Power Technology</b>	
570 Introduction to Small Gas Engines	35
571 Automotive Service and Repair	36
572 Advanced Power Technology	36
<b>Project Lead the Way</b>	
580 ^Introduction to Engineering Design	36
581 ^Principles of Engineering	36
582 ^Civil Engineering and Architecture	36
583 ^Digital Electronics	36
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600 Language Arts 9	38
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623 Theater	39
605 World Literature I	39
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608 ^Advanced Placement Language and Composition	40

606 ^Advanced Placement Literature and Composition	40
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705 Intermediate Algebra	42
710 Geometry	42
713 Honors Geometry	42
715 Algebra II	42
716 Honors Algebra II	42
720 ^ Basic and Applied Statistics	42
722 ^ Intro to Stats	42
724 ^ College Algebra	43
725 ^ Honors Placement PreCalculus	43
727 ^ Applied Calculus	43
729 ^Advanced Placement Calculus	43
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200 Freshman Band	44
202 Symphonic Band	44
203 Concert Band	44
205 Jazz Lab	44
208 Choir 9	44
210 Bella Voce	44
212 Concert Choir	45
<b>Science</b>	
<b>Life Science</b>	
805 Biology	45
840 ^Advanced Placement Biology	45
830 Human Anatomy and Physiology	45
<b>Physical Science</b>	
800 Physical Science	46
801 Honors Physical Science	46
825 Honors Chemistry	46
826 ^Advanced Placement Chemistry	46
827 ^College General Organic Chemistry	46
851 ^Advanced Placement Physics	47
811 Chemistry	47
<b>Social Sciences</b>	
921 World History	47
905 United States History	47
906 ^Advanced Placement United States History	48
912 Economics	48
915 World Geography	48
916 ^Advanced Placement World History	48
913 World Religions	48
920 High School Psychology	48
922 ^College Psychology	49
910 ^Advanced Placement Economics	49
917 ^Advanced Placement Human Geography	49
918 American Government and Politics	49
<b>World Languages</b>	
<b>German</b>	
640 German I	50
642 German II	50

644 German III	50
646 German IV	50
649 ^German IV/College in the Schools Credit Program	50
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650 Spanish I	51
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## 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 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 Content	Course Name	Course Number
English	Lang 9	
Math*	Int Algebra	
Science*	Physical Sci	
Social Studies	World History	
Gym 9		
Elective		
Elective		
Elective		
Elective		
Elective		
Elective		
Elective		
Elective		

11 <sup>th</sup> Grade		
Course Content	Course Name	Course Number
English		
English		
English		
Math*	Algebra II	
Science*	Chemistry	
Economics		
World Geography		
Adulting 101		
Elective		
Elective		
Elective		
Elective		
Elective		
Elective		
Elective		
Elective		

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

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

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.

**HGE** Human Services, Government and Education  
**HAS** Health, Agriculture, and other Sciences

**BCA** Business, Communication, Arts and Entrepreneurship  
**MET** Manufacturing, Engineering, and Technology



## GRICULTURE 9-12

<div style="border: 1px solid red; padding: 2px; width: fit-content; margin-bottom: 10px;">HAS</div>	<b>315</b>	<b>FISH AND WILDLIFE MANAGEMENT</b> Prerequisite: None 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.	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 9 -12</b>
<div style="border: 1px solid blue; padding: 2px; width: fit-content; margin-bottom: 10px;">MET</div> <div style="border: 1px solid red; padding: 2px; width: fit-content;">HAS</div>	<b>307</b>	<b>LANDSCAPE DESIGN</b> Prerequisite: None 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.	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 10 - 12</b>
<div style="border: 1px solid red; padding: 2px; width: fit-content; margin-bottom: 10px;">HAS</div>	<b>306</b> <b>10-12</b>	<b>FLORICULTURE</b> Prerequisite: None 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.	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades</b>
<div style="border: 1px solid red; padding: 2px; width: fit-content; margin-bottom: 10px;">HAS</div>	<b>311</b>	<b>GREENHOUSE TECHNOLOGY</b> Prerequisite: None 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.	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 10-12</b>
<div style="border: 1px solid red; padding: 2px; width: fit-content; margin-bottom: 10px;">HAS</div>	<b>322</b>	<b>COMPANION ANIMALS</b> Prerequisite: None 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!	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 10- 12</b>
<div style="border: 1px solid red; padding: 2px; width: fit-content; margin-bottom: 10px;">HAS</div>	<b>323</b>	<b>LARGE VET SCIENCE</b> Prerequisite: None *Articulation agreement available: See Instructor 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.	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 10- 12</b>
<div style="border: 1px solid red; padding: 2px; width: fit-content; margin-bottom: 10px;">HAS</div>	<b>320</b>	<b>AQUACULTURE</b> Prerequisite: None 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.	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 9 - 12</b>
<div style="border: 1px solid red; padding: 2px; width: fit-content; margin-bottom: 10px;">HAS</div>	<b>321</b>	<b>AQUACULTURE II</b> Prerequisite: Aquaculture I Required	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 9 - 12</b>

See Aquaculture. Aquaculture and Aquaculture II must be taken consecutively for potential of credit

## ART 9-12

HAS

NOTE: 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..

**Please pay close attention to the recommended prerequisites of art courses as defined in individual course descriptions.**

### 350 FOUNDATIONS OF ART Semester .5 Credit Grades 9-12

Prerequisite: 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.**

### 352 MEDIA ARTS Semester .5 Credit Grades 9 - 12

Prerequisite: None

**\*Articulation agreement available: (Intro to Photo/Image Editing/Digital Photo)**

BCA

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.

### 360 MEDIA ARTS II Semester .5 Credit Grades 9 – 12

Prerequisite: Media Arts

**\*Articulation agreement available: (Digital Video Production)**

BCA

This course builds upon knowledge from the Media Arts prerequisite course. In this course you will have the opportunity to explore careers in the Media Arts fields as well create complex original works using photography, videography and other media based creative programs. A great deal of focus in this course is placed on Language Arts skills, as students plan and propose news stories and projects, develop storyboards and scripts, learn to create reports on school and local news events, and produce various video projects including interviews, instructional videos, commercials, and news programs. There will be expected hours put in outside of the class period throughout the semester. Students in this course must be motivated, creative, and dedicated to working with peers and cohesive team.

### 353 SURVEY OF TWO-DIMENSIONAL ART Semester .5 Credit Grades 9 - 12

Prerequisite: Foundations of Art

BCA

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,

### 356 SURVEY OF THREE-DIMENSIONAL ART Semester .5 Credit Grades 9 - 12

Prerequisite: Foundations of Art

BCA

Survey of 3-D Art is required of all students preparing to enroll in Ceramics and Sculpture or wish to develop their ability to create or conceptualize in three-dimensional form. Survey experiences will include ceramics and multimedia sculpture.

### 354 DRAWING AND PAINTING I Semester .5 Credit Grades 10-12

Prerequisite: Foundations of Art and Survey of 2-D Art

BCA

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 and in-depth study of the materials and content offered in the prior courses.

### 355 DRAWING AND PAINTING II Semester .5 Credit Grades 10-12

Prerequisite: Drawing and Painting I

**362 DRAWING AND PAINTING III Semester .5 Credit Grades 10-12**  
Prerequisite: Drawing and Painting II

**BCA 357 CERAMICS AND SCULPTURE I Semester .5 Credit Grades 10-12**  
Prerequisite: Foundations of Art and Survey of 3-D Art

Continued study of ceramics provides the student with the opportunity to expand upon basic processes through advanced studio assignments, group critique processes, and greater historical and aesthetic appreciation. Wheel throwing, hand building, additive and subtractive methods will be explored in greater depth. **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.**

**358 CERAMICS AND SCULPTURE II Semester .5 Credit Grades 10-12**  
Prerequisite: Ceramics and Sculpture I

**361 CERAMICS AND SCULPTURE III Semester .5 Credit Grades 10-12**  
Prerequisite: Ceramics and Sculpture II

**BCA 363 ^ADVANCED PLACEMENT STUDIO ART Weighted Full Year 1 Credit Grades 11-12**

Prerequisite: Foundations of Art, Survey of 2D, Drawing & **and Instructor approval.**

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.

## BUSINESS EDUCATION 9-12

The Marketing Education Program is an opportunity for students to study a program of instruction in the areas of merchandising, marketing and management. The Marketing OJT class gives senior students an opportunity to receive training that combines classroom instruction with a supervised part-time employment station.

The Business-Program is designed to prepare students for jobs and careers in various business and office occupations. Students in the program will have the opportunity to receive training which combine the classroom instruction with a supervised part-time employment training station (business establishments in the community)

**BCA 110 RETAIL MANAGEMENT & ENTREPRENEURSHIP Semester .5 Credit Grades 10-12**  
Suggested Prerequisite: Intro to Marketing or Permission of Instructor.

Topics such as Retail Promotions, Inventory Control, Basic Finance, and Customer Relations will be covered. Computerized applications will also be utilized to simulate a retail business. Students will develop their own business from idea to success. The basics and fundamentals of writing a sound business plan will also be taught. Students in this class can also opt to receive credit for part-time employment. The student can receive credit for class study and credit for on-the-job training experience. 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 major or a Business Administration major in college.

**BCA 111 Intro To Marketing (Advertising, Marketing, Sales) Semester .5 Credit Grades 9-12**  
Prerequisite: None \*Articulation agreement available: See Instructor

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

**BCA 113 MARKET MANAGEMENT Semester .5 Credit Grade 11-12**  
Suggested Prerequisite: Retail Business Operations/ Intro to Marketing/Sales or Permission of Instructor.

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.

<div style="border: 1px solid green; padding: 2px; display: inline-block;">BCA</div>	<b>114</b>	<b>MARKETING EDUCATION ON-THE-JOB TRAINING (OJT)</b>	<b>Semester</b>	<b>.5 Credit</b>	<b>Grade 12</b>
Prerequisite: Must be enrolled in a Business or Marketing course and must have employment. Instructor approval required 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.					
<div style="border: 1px solid green; padding: 2px; display: inline-block;">BCA</div>	<b>115</b>	<b>SPORTS &amp; ENTERTAINMENT MARKETING</b>	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 10-12</b>
Prerequisite: None Sure you know if the Vikings beat the Packers, if the Twins and Wild made the playoffs, and how awesome that concert was last night... but do you know who the real winners are at these events? How much money does Target make from putting its name on the side of a stadium? Who makes money when you buy a piece of merchandise? These are just a few of the questions that can be answered when you discover the ways businesses use sports and entertainment events to increase their profits. 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.					
<div style="border: 1px solid green; padding: 2px; display: inline-block;">BCA</div>	<b>400</b>	<b>INFORMATION PROCESSING I</b>	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 9-12</b>
Prerequisite: None This course will give students the opportunity to enhance keyboarding skills by touch and to learn software packages that will enable them to do their personal correspondence as well as their school reports and term papers. These skills are ESSENTIAL and will be utilized in high school and college courses. The objectives for this course include: A. To master the computer keyboard to include the alphabet, numbers and symbols B. To utilize Microsoft Word features and format various applications: <ol style="list-style-type: none"> <li>1. centering jobs, memorandums, letters</li> <li>2. unbound/bound reports to include researching and citing appropriate references</li> <li>3. tables</li> </ol> C To demonstrate the ability to compose at the keyboard D. To improve language arts skills E. To explore the various software programs and technology resources. All high school students are encouraged to take at least one course in Information Processing. This course extends and expands in Information Processing II. It is recommended that these two courses be taken <b>CONSECUTIVELY</b> .					
<div style="border: 1px solid green; padding: 2px; display: inline-block;">BCA</div> <div style="border: 1px solid blue; padding: 2px; display: inline-block; margin-top: 5px;">MET</div>	<b>404</b>	<b>COMPUTER SCIENCE AND PROGRAMMING</b>	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 10-12</b>
Prerequisite: Computer Applications or Instructor Approval 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.					
<div style="border: 1px solid green; padding: 2px; display: inline-block;">BCA</div>	<b>402</b>	<b>COMPUTER APPLICATIONS</b>	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 9-12</b>
Prerequisite: Recommended Information Processing I <b>*Articulation agreement available: See Instructor</b> 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.					
	<b>403</b>	<b>ADVANCED COMPUTER APPLICATIONS</b>	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 9-12</b>



During the semester students will discuss values, goals, and self-understanding in relation to others. Units to be covered will include family structures, purpose of the family, communication, dating and love, understanding sexuality, families in crisis, divorce and remarriage, aging, and death and dying.

<div style="border: 1px solid black; padding: 2px; display: inline-block;">HGE</div>	<b>502</b>	<b>CHILD PSYCHOLOGY</b> Prerequisite: None	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 10-12</b>
<p style="margin: 0;"><b>*Articulation agreement available: Foundations of Child Development</b></p> <p style="margin: 0;">This course provides a study of child development from conception through preschool. Studying the Physical, Intellectual and Social Emotional Development of children through these age groups. Students will run a Play School at the end of the semester where they will create and teach age appropriate activities with preschool aged children.</p>					
<div style="border: 1px solid black; padding: 2px; display: inline-block;">HGE</div>	<b>504</b>	<b>INTERIOR DESIGN</b> Prerequisite: None	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 9-12</b>
<p style="margin: 0;"><b>Note: *Can be used for .5 art credit</b></p> <p style="margin: 0;">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-</p>					
<div style="border: 1px solid black; padding: 2px; display: inline-block;">HGE</div>	<b>511</b>	<b>INTRODUCTION TO CULINARY ARTS</b> Prerequisite: None	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 9 -12</b>
<p style="margin: 0;">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.</p>					
<div style="border: 1px solid black; padding: 2px; display: inline-block;">HGE</div>	<b>512</b>	<b>ADVANCED CULINARY ARTS</b> Prerequisite: Introduction to Culinary Arts	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 9 -12</b>
<p style="margin: 0;"><b>*Articulation agreement available: Culinary Fundamentals 1</b></p> <p style="margin: 0;">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.</p>					
<div style="border: 1px solid black; padding: 2px; display: inline-block;">HGE</div>	<b>513</b>	<b>INTERNATIONAL CULINARY</b> Prerequisite: Introduction to Culinary Arts	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 9 -12</b>
<p style="margin: 0;">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.</p>					
<div style="border: 1px solid black; padding: 2px; display: inline-block;">HGE</div>	<b>514</b>	<b>GOURMET TO GO (Not offered for 2021-2022 )</b> Prerequisite: Intro to Culinary Arts AND Advanced Culinary Arts or International Culinary	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 10 -12</b>
<p style="margin: 0;"><b>THIS COURSE OFFERED OPPOSITE YEARS TO BAKING AND PASTRY ARTS--OFFERED 22-23</b></p> <p style="margin: 0;">Are you interested in food service production? Do you enjoy planning and preparing meals? What about going on field trips to evaluate various food service careers and locations? If you answered yes to any of these questions, then Gourmet to Go is the class for you. You will be working with a lab group to develop a unique Entrée, Side and Dessert and then sell them to teachers and employees in the School District. With our profit, we will go on field trips throughout the state.</p>					
<div style="border: 1px solid black; padding: 2px; display: inline-block;">HGE</div>	<b>523</b>	<b>BAKING AND PASTRY ARTS</b> Prerequisite: Intro to Culinary Arts AND Advanced Culinary Arts or International Culinary	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 11 -12</b>
<p style="margin: 0;"><b>THIS COURSE OFFERED OPPOSITE YEARS TO GOURMET TO GO; OFFERED 21-22</b></p> <p style="margin: 0;">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,</p>					



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.

<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">HGE</div> <div style="border: 1px solid black; padding: 2px; width: fit-content;">HAS</div>	<b>508</b> <b>NUTRITION</b> Prerequisite: None This class is designed for students who are interested in the study of nutrition and may be considering food careers such as dietetics, hotel and restaurant management, sports fitness coordinators and students pursuing a career in medicine. The class will cover nutrition and diet management throughout the life span. Some topics covered are special diets including safe weight reduction diets and nutrition for peak performance in sports.	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 11-12</b>
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<b>525</b>	<b>ADULTING 101</b> Prerequisite: None <b>REQUIRED</b>	<b>Semester</b>	<b>.5 Credit</b>	<b>Grade 11</b>
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Do you plan on living with your parents forever? Are you prepared to live on your own? Lessen the stress on yourself and be prepared by taking Independent Living. This course is designed to prepare you for your independent life now and for the future. The student will explore time and stress management, meal preparation, financial management, leasing, laundry, and housekeeping/organization skills.

### HEALTH/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.

<b>215</b>	<b>PHYSICAL EDUCATION 9</b> Prerequisite: None <b>REQUIRED</b> 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.	<b>Semester</b>	<b>.5 Credit</b>	<b>Grade 9</b>
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<b>219</b>	<b>HEALTH</b> Prerequisite: None <b>REQUIRED</b> 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.	<b>Semester</b>	<b>.5 Credit</b>	<b>Grade 10</b>
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<div style="border: 1px solid black; padding: 2px; width: fit-content;">HAS</div>	<b>208</b> <b>INDIVIDUAL &amp; DUAL SPORTS</b> Prerequisite: Physical Education 9 This is an elective course designed for students who have a sincere desire to improve their physical fitness and sport specific skills through a variety of individual or dual sports. Activities to improve one's physical fitness levels will be alternated with activities that improve individual and dual sport skills and strategies. Such sports include but are not limited to: golf, disc golf, tennis, bowling, biking, snow shoeing, lawn sports, yoga, paddleball, badminton, pickleball, and skating.	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 10-12</b>
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<div style="border: 1px solid black; padding: 2px; width: fit-content;">HAS</div>	<b>209</b> <b>INTRO STRENGTH &amp; FITNESS</b> Prerequisite: Physical Education 9 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	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 10-12</b>
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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.**

## INDUSTRIAL TECHNOLOGY EDUCATION 9-12

The Industrial Technology Education curriculum for grades 9-12 includes both industrial technology classes and vocational classes. The cost of materials used in these classes will depend on the quality and quantity of materials used and the type of project work. Students will pay for all materials and supplies used to construct projects for their personal use. Scholarship money is available for all students who qualify.

### WOODWORKING TECHNOLOGY

<b>MET</b>	<p><b>540 INTRODUCTION TO WOOD TECHNOLOGY</b></p> <p>Prerequisite: None</p> <p>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:</p> <ol style="list-style-type: none"> <li>1. Measurement and Layout</li> <li>2. Tool Identification</li> <li>3. Project Planning</li> <li>4. Machine &amp; Personal Safety</li> <li>5. Machine Demonstrations</li> <li>6. Machine Operation</li> <li>7. Project Construction</li> <li>8. Joinery Techniques</li> <li>9. Adhesives, Gluing, Clamping</li> <li>10. Screws, Nails, and Staples</li> <li>11. Abrasives and Sanding</li> <li>12. Stains and Finishes</li> </ol>	<p><b>Semester</b></p> <p><b>.5Credit</b></p> <p><b>Grades 9-12</b></p> <p><b>Eye protection is required!</b></p>
<b>MET</b>	<p><b>541 CREATIVE WOODCRAFTS</b></p> <p>Prerequisite: Introduction to Wood Technology</p> <p><b>NOTE: *Can be used for .5 art credit</b></p> <p>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.</p>	<p><b>Semester</b></p> <p><b>.5 Credit</b></p> <p><b>Grades 9-12</b></p> <p><b>Eye protection is required!</b></p>
<b>MET</b>	<p><b>542 MACHINE WOODWORKING I</b></p> <p>Prerequisite: Intro to Wood Tech.</p> <p><b>*Articulation agreement available: See Instructor</b></p> <p>This class is a study of woodworking machines and their uses. Students will construct a project, which will include instruction in the following areas:</p> <ol style="list-style-type: none"> <li>1. Overarm Router Operation</li> <li>2. Adv. Table Saw Operation</li> <li>3. Timesaver Operation</li> <li>A. Router    B. Plate Joiner    C. Saber Saw</li> <li>4. Portable Tool Operation</li> <li>5. Adv. Drill Press Operation</li> <li>6. Bandsaw Operation</li> <li>D. Belt Sander    E. Power Compound Miter Saw</li> </ol>	<p><b>Semester</b></p> <p><b>.5 Credit</b></p> <p><b>Grades 10-12</b></p> <p><b>Eye protection is required!</b></p>
<b>MET</b>	<p><b>543 MACHINE WOODWORKING II</b></p> <p>Prerequisite: Intro to Wood Tech, and Machine Wood I</p> <p><b>*Articulation agreement available: See Instructor</b></p> <p>This class is a study of advanced woodworking machines and their uses. Students will construct a project (or continue project from Machine Woodworking I), which will include instruction in the following areas:</p> <ol style="list-style-type: none"> <li>1. Spindle Shaper Operation</li> <li>2. Advanced Portable Router Operation</li> <li>3. Wood Lathe Operation</li> <li>4. Uniplane Operation</li> <li>5. Spindle Boring Machine Operation</li> </ol>	<p><b>Semester</b></p> <p><b>.5 Credit</b></p> <p><b>Grades 10-12</b></p> <p><b>Eye protection is required!</b></p>
<b>MET</b>	<p><b>544 CABINETMAKING I</b></p> <p>Prerequisite: Introduction to Wood Technology</p> <p>This class is an introduction to the skills and art of Cabinetmaking. Students will construct a project that will include instruction and activities in the following areas:</p> <ol style="list-style-type: none"> <li>1. Designing and Planning Cabinets</li> <li>2. Lumber Selection/Identification</li> <li>3. Estimating Materials and Cost</li> <li>4. Casework vs. Cabinetmaking</li> <li>7. Drawer Construction</li> <li>8. Leg and Post Construction</li> <li>9. Leg and Rail Construction</li> <li>10. Basic Frame and Pane Construction</li> </ol>	<p><b>Full Year</b></p> <p><b>1 Credit</b></p> <p><b>Grades 10-12</b></p> <p><b>Eye protection is required!</b></p>



5. Face Frame Construction
6. Door Construction

11. Hardware Selection and Installation
12. Basic Finishing Techniques & Materials

<b>MET</b>	<b>545</b> -12	<b>CABINETMAKING II</b> Prerequisite: Intro to Wood Tech. & Cabinetmaking I	<b>Full Year</b>	<b>1 Credit</b>	<b>Grades</b> <b>Eye protection is required!</b>
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This course is a continuation of the study into the detailed science and fine art of cabinetmaking. Students will construct a project that may include instruction and activities in the following areas:

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| <ol style="list-style-type: none"> <li>1. Adv. Frame &amp; Panel Construction</li> <li>2. Adv. Door Construction</li> <li>3. Adv. Drawer Construction</li> <li>4. Glass, Ceramics, and Plastics</li> <li>5. Specialty Hardware</li> <li>6. Carving</li> <li>7. Bending and Laminating</li> </ol> | <ol style="list-style-type: none"> <li>8. Veneering and Inlaying</li> <li>9. Constructing the Base Cabinet</li> <li>10. Constructing the Upper Cabinet</li> <li>11. Using Plastic Laminate</li> <li>12. China Cabinets, Corner Cabinets, Bookshelves</li> <li>13. Bathroom Vanities, Broom Closets, Linen Closets</li> </ol> |
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<b>550</b>	<b>INDEPENDENT WOODWORKING</b>	<b>Semester</b>	<b>.5 Credit</b>	<b>Grade 12</b>
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Prerequisite: Mach Woods II, Cabinet Making II, and Instructor Permission **Eye protection is required!**

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.

### METALWORKING TECHNOLOGY

<b>MET</b>	<b>555</b>	<b>INTRODUCTION TO METALWORKING TECHNOLOGY</b> Prerequisite: None	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 9-12</b> <b>Eye protection is required!</b>
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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.

<b>MET</b>	<b>556</b>	<b>HOT METAL TECHNOLOGY</b> Prerequisite: Introduction to Metalworking Technology <b>*Articulation agreement available: See Instructor</b>	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 10-12</b> <b>Eye protection is required!</b>
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This course is for the student who has developed an interest in the hot metals/welding areas. The topics covered will include:

<ol style="list-style-type: none"> <li>1. Innershield/Flux core welding</li> <li>4. Oxy-Acetylene Welding/cutting</li> <li>7. Plastic Welding</li> </ol>	<ol style="list-style-type: none"> <li>2. Plasma/Arc Air Cutting</li> <li>5. Gas Metal Arc Welding (MIG)</li> <li>8. Safety</li> </ol>	<ol style="list-style-type: none"> <li>3. Arc Welding</li> <li>6. Gas Tungsten Arc Welding (TIG)</li> <li>9. Careers</li> </ol>
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<b>MET</b>	<b>557</b>	<b>METALS TECHNOLOGY I</b> Prerequisite: Intro to Metal Tech <b>*Articulation agreement available: See Instructor</b>	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 10-12</b> <b>Eye protection is required!</b>
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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:

<ol style="list-style-type: none"> <li>1. Advanced metal lathe</li> <li>4. Surface grinder</li> <li>7. Vertical Mill</li> </ol>	<ol style="list-style-type: none"> <li>2. Vertical milling machine</li> <li>5. Safety in all areas</li> <li>8. Lathe</li> </ol>	<ol style="list-style-type: none"> <li>3. Horizontal milling machine</li> <li>6. Computer Machining (C.N.C.)</li> </ol>
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<b>MET</b>	<b>558</b>	<b>METALS TECHNOLOGY II</b> Prerequisite: Metals Technology I	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 10-12</b> <b>Eye protection is required!</b>
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Content: This course is designed for students interested in a career as a machinist or a related field. The course deals with:

1. Advanced milling machine
2. Lathe
3. Careers
4. Layout and blueprint reading
5. Computer Machining

<b>MET</b>	<b>560</b>	<b>METAL FABRICATION/WELDING I</b> Prerequisite: Intro to Metals & Hot Metals Tech <b>*Articulation agreement available: See Instructor</b>	<b>Full Year</b>	<b>1 Credit</b>	<b>Grades 11-12</b> <b>Eye protection is required!</b>
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This course deals with the areas of:

<ol style="list-style-type: none"> <li>1. Safety</li> <li>5. Gas Metal Arc Welding (MIG)</li> <li>8. Metal Cutting Methods</li> <li>11. Also, the layout and fabrication of school or private projects by each student.</li> <li>12. Welds will be done in all positions on a variety of metals.</li> </ol>	<ol style="list-style-type: none"> <li>2. Metallurgy</li> <li>6. Plastic Welding</li> <li>9. Special Welding/Brazing</li> </ol>	<ol style="list-style-type: none"> <li>3. Oxy-Acetylene Welding</li> <li>7. Gas Tungsten Arc Welding (TIG)</li> <li>10. Employment skills/outlook</li> </ol>	<ol style="list-style-type: none"> <li>4. Arc Welding</li> </ol>
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**MET** 561 **METAL FABRICATION/WELDING II** Full Year 1 Credit Grade12  
 Prerequisite: Metal Fabrication/Welding I Eye protection is required!  
 \*Articulation agreement available: See Instructor  
 This course deals in depth with the areas of:  
 1. Layout & Design 2. Specialized Brazing 3. Welding Symbols 4. Specialized Rods/Welding  
 5. Blueprint reading 6. Specialized Cutting Processes 7. Out of position welding  
 8. Fabrication of one or more large school or private project(s)  
 a. Arc b. Oxy-acetylene  
 c. Gas, Metal arc (MIG) d. Gas, Tungsten Arc (TIG)

**MET** 563 **CREATIVE METALWORK** Semester .5 Credit Grades 10-12  
 Prerequisite: Introduction to Metal Working Technology Eye protection is required!  
 NOTE: \*Can be used for .5 art credit  
 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.

**MET** 565 **INDEPENDENT MACHINE SHOP** Semester .5 Credit Grade 12  
 Prerequisite: Metals Technology II and instructor permission Eye protection is required!  
 The student will construct an advanced project either personal or school related. The project shall use all of the machines listed: Lathe, milling machine, and surface grinder. The project(s) shall last ten weeks in duration. Accuracy and quality of construction shall be stressed. Work with computer lathe, milling machining, if a student desires.

**POWER TECHNOLOGY**

**MET** 570 **INTRODUCTION TO SMALL GAS ENGINES** Semester .5 Credit Grades 9 -12  
 Prerequisite: None Eye protection is required!  
 \*Articulation agreement available: See Instructor  
 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.

**MET** 571 **AUTOMOTIVE SERVICE AND REPAIR** Semester .5 Credit Grades 11-12  
 Prerequisite: Driver's License and Vehicle to Work On Eye protection is required!  
 \*Articulation agreement available: See Instructor  
 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.  
 1. Safety 2. Emission System 3. Electrical System 4. Engine Tune-up 5. Lubrication 6. Fuel System  
 7. Cooling System 8. Ignition System 9. Hoist Use/Safety 10. Braking System  
 11. Tire Technology

**MET** 572 **ADVANCED POWER TECHNOLOGY** Semester .5 Credit Grades 11-12  
 Prerequisite: Intro to Small Gas Engines Eye protection is required!  
 \*Articulation agreement available: See Instructor  
 Content: 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.

**PROJECT LEAD THE WAY 9-12**

Project Lead the Way offers a comprehensive curriculum that provides rigorous and innovative STEM (Science, Technology, Engineering, and Math) curricular programming. PLTW emphasizes critical thinking, creativity, innovation and real-world problem solving. The hands-on, project based program exposes students to a foundation and path to college and career success. End of course exam will be taken for college credit.

**MET** 580 **INTRODUCTION TO ENGINEERING DESIGN - weighted** Full Year 1 Credit Grades 9 -12  
 Prerequisite: None \*Articulation agreement available: See Instructor  
 Students use a problem solving model to improve existing products and invent new ones. Using sophisticated

three-dimensional modeling software, students communicate the details of the products. Emphasis is placed on analyzing potential solutions and communicating ideas to others.

**MET** **581**    **^PRINCIPLES OF ENGINEERING - weighted**    **Offered 22-23 Full Year**    **1 Credit**    **Grades 10-12**  
 Prerequisite: None    **\*Articulation agreement available: See Instructor**  
 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.

**MET** **582**    **^CIVIL ENGINEERING and ARCHITECTURE - weighted**    **Offered 22-23 Full Year**    **1 Credit**    **Grades 10-12**  
 Prerequisite: None    **\*Articulation agreement available: See Instructor**  
 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.

**MET** **583**    **^DIGITAL ELECTRONICS - weighted**    **Offered 21-22**    **Full Year**    **1 Credit**    **Grades 10-12**  
 Prerequisite: Algebra II or concurrent    **\*Articulation agreement available: See Instructor**  
 This course introduces students to applied digital logic, a key elements 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.

**MET** **595**    **INDUSTRIAL ENTERPRISE PRACTICUM**    **Semester**    **.5 Credit**    **Grades 11- 12**  
 Prerequisite: Instructor Approval  
 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.

**BCA**

**MET** **550**    **CONSTRUCTION TECHNOLOGY /OCCUPATIONS**    **Full Year**    **1 Credit**    **Grades 11- 12**  
 Prerequisite: Instructor Approval  
 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.

**CONCURRENT ENROLLMENT MACHINING THROUGH MNSCSE**

**MET** **566**    **^ENGINEERING DRAWINGS 1/PRECISION MEASURING - weighted**    **Semester**    **.5 Credit**    **Grades 11-12**  
**Optional: MN State College Credit - MACH 1605 (2 semester credits) & MACH 1610 (2 semester credits)**  
 Prerequisite: Instructor approval  
 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. This is a class with concurrent enrollment with MN State College Southeast and students will earn 2 college credits in MACH 1605 & 2 college credits with 1610.

**567**     **^INTRODUCTION TO CNC PRECISION MACHINING TECHNOLOGY -weighted Semester .5 Grades**  
**11-12**

MET

**Optional: MN State College Credit - 4 Semester Credits - MACH 1641**

Prerequisites: Engineering/Drawing 1/ Precision Measuring

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. (Prerequisites: MACH1601 and MACH1610). 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. This is a class with concurrent enrollment with Minnesota State College Southeast and students will earn 4 college credits in MACH 1641.

**568**     **^INTRODUCTION TO CAD/CAM+3D PRINTING- weighted Semester .5 Credit Grade 11-12**

**Prerequisite:** Engineering Drawings 1/Precisions Measuring (CE)

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. Student will learn how to import CAD models into 3D printing slicing software and how to print the model. This is a class with concurrent enrollment with Minnesota State College Southeast Students will earn 4 college credits.

**569**     **CNC PRECISION MACHINING 2 weighted Semester .5 credit Grade 11-12**

Prerequisite: Introduction to CNC Precision Machining Technology (CE)

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. This is a class with concurrent enrollment with Minnesota State College Southeast. Students will earn 4 college credits.

**LANGUAGE ARTS 9-12**

**IMPORTANT NOTES TO STUDENTS, PARENTS, AND REGISTRATION ADVISORS:**

- 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.

	<b>Freshman Yr.</b>	<b>Sophomore Yr.</b>	<b>Junior Yr.</b>	<b>Senior Yr.</b>
<b>Recommended accelerated/AP track</b>	HonorsLanguage Arts 9 (full-year course)	Honors Language Arts 10 (full-year course)	Advanced Placement: Language & Comp (full-year course)	AdvancedPlacement: Literature & Comp. (full-year course)
<b>Recommended standard track</b>	Language Arts 9 or Language Arts 9 w/Lab (full-year course)	Language Arts 10 (full-year course)	Speech; and American Lit I or American Lit II or Mythology; Writing plus either World Lit I or World Lit II	Writing, World Lit I or World Lit II; <b>OR</b> AP Language & Comp

**600**     **LANGUAGE ARTS 9**     **Full Year**     **1 Credit**     **Grade 9**  
Prerequisite: None

Throughout the year, students read, explore, and study grammar, writing and composition, and literature. A range of communication competencies including vocabulary, listening, speaking, and group work are developed. During first semester, students will complete at least two major writing assignments from the following: short story, narrative, character sketch, and personal essay. Also in first semester, literature units may include short stories, at least one novel, poetry, and outside reading. During second semester, at least two compositions from the following are required:

in-class essay, comparison-contrast essay, opinion-defense essay, and parody. Second semester literature units may include short stories, one or more novels, poetry, at least one play, and outside reading. This course will include preparation for the Minnesota Comprehensive Assessment (MCA) in writing given in the spring of 9<sup>th</sup> grade. delete previous as it is no longer given

**601 HONORS LANGUAGE ARTS 9 - weighted Full Year 1 Credit Grade 9 (Accelerated Curriculum)**  
Prerequisite: Instructor Approval. B-or higher in Lang Arts 8 and grade level reading as measured by standardized test scores. A writing sample may be required.

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. **Students will receive summer reading assignments that must be completed by the time the course begins in the fall.** A heavy emphasis is placed on writing skills and this course will include preparation for the Minnesota Comprehensive Assessment (MCA) in writing given in the spring of 9<sup>th</sup> grade.

**607 LANGUAGE ARTS 10 Full Year 1 Credit Grade 10**  
Prerequisite: Completion of LA 9. Students that completed Pre-AP LA in 9<sup>th</sup> grade should **not** register for this course.

The course offers a broad range of literary genres and writing skills. Students will study writing and composition, short stories, poetry, drama, and novels from around the world throughout the year. During first semester, students will write at least two compositions, and study the short story, poetry, and novel forms. During second semester, students will continue to write compositions while furthering their vocabulary, and study short fiction and dramatic works.

**614 HONORS LANGUAGE ARTS 10 - weighted Full Year 1 Credit Grade 10 (Accelerated Curriculum)**

Prerequisite: Successful completion of **Honors** Language Arts 9; successful completion of a summer reading assignment.

In addition to the literature, this Honors course will feature a year-long study introducing rhetoric and composition, focusing on literary analysis. students will be required to write at least one additional multi-draft, typed paper in MLA format and read an additional novel.

**1603 AMERICAN LITERATURE I First Semester .5 Credit Grades 11-12**

HGE

Prerequisite: Successful completion of LA 9 and LA 10 or Pre-Advanced Placement Language Arts.

This course will examine the cross-cultural roots that are the foundation for all modern American literature. Students will read fiction, verse, and nonfiction historical writings from approximately 1580-1880, and examine various voices from among the many cultures settling in the “new world” during this period. By studying the origins of thiS country’s literature, students will gain insight to the development of contemporary American literature. Featured works may include short stories by Edgar Allan Poe, poetry by Walt Whitman (esp. from *Leaves of Grass*), fiction by Nathaniel Hawthorne (esp. *The Scarlet Letter*), and *Red Badge of Courage*.

**2604 AMERICAN LITERATURE II Second Semester .5 Credit Grades 11-12**

HGE

Prerequisite: Successful completion of Language Arts 9 and Language Arts 10 or Pre-AP Language Arts.

This course will examine the array of conflicting literary voices that make America a unique, exciting, diverse nation. Literature of various minority and immigrant peoples that have contributed to the culturally diverse American chorus (first as “outsiders,” then as “outsiders from within”) will be examined as well as the works and writers of the more dominant literary culture. Native American selections (such as *Winter in the Blood*, *Bury My Heart at Wounded Knee*, and *Black Elk Speaks*) may be featured, along with selections from Tim O’Brien, Judith Guest, Ernest Hemmingway, Sherman Alexie, Richard Wright, and other renowned poet/authors of minority backgrounds.

**614 SPEECH Semester .5 Credit Grades 11-12**

HGE

Prerequisite: Successful completion of Language Arts 9 and Language Art 10

The curriculum focuses on nonverbal and verbal communication, interpersonal communication, intrapersonal communication, and public speaking. Classroom climate and speeches are structured to help ease students’ fear of public speaking. Speeches include the three general purposes to speak: speaking to entertain, speaking to inform, and speaking to persuade.

<div style="border: 1px solid black; padding: 2px; display: inline-block;">HGE</div>	<b>621</b>	<b>MYTHOLOGY</b> Prerequisite: Successful completion of Language Arts 9 and Language Arts 10	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 11-12</b>
<p>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.</p>					
<div style="border: 1px solid black; padding: 2px; display: inline-block;">HGE</div>	<b>1605</b>	<b>WORLD LITERATURE I</b> Prerequisite: Two of the following courses: American Literature I, American Literature II, Mythology, Speech.	<b>First Semester</b>	<b>.5 Credit</b>	<b>Grades 11-12</b>
<p>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 with notes on representative “Authors of the Day.” Our texts include <i>Beowulf</i>, Shakespeare’s <i>The Tempest</i>, Dickens’s <i>A Christmas Carol</i>, selections from the Scott Foresman <i>English Literature</i> anthology, as well as handouts of poems, essays, and short stories. Second quarter, we will delve into Aldous Huxley’s <i>Brave New World</i>, exploring its ideas and examining its literary features. After completing a summative project comparing themes in this text, students will select a work of British literature to read and respond to independently.</p>					
<div style="border: 1px solid black; padding: 2px; display: inline-block;">HGE</div>	<b>2619</b>	<b>WORLD LITERATURE II</b> Prerequisite: Two of the following courses: American Literature I, American Literature II, Mythology, Speech.	<b>Second Semester</b>	<b>.5 Credit</b>	<b>Grades 11-12</b>
<p>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. We begin in Africa with the novels <i>Things Fall Apart</i>, by Chinua Achebe and <i>Purple Hibiscus</i>, by Chimamanda Ngozi Adichie, and the film <i>Hotel Rwanda</i>. We then explore the land and literature of India and Latin America through the film <i>Slumdog Millionaire</i> and a selection of poems, essays, and short stories. We conclude with a self-selected reading unit with options of novels from around the globe.</p>					
<div style="border: 1px solid black; padding: 2px; display: inline-block;">HGE</div>	<b>608</b> <b>12</b>	<b>^ADVANCED PLACEMENT: LANGUAGE &amp; COMPOSITION-weighted</b> <b>Full Year 1 Credit Grades Op</b> <b>Optional: MN State College Credit - College Writing 1 - ENGL 1215 - 3 semester credits</b> 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.			
<p>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 generic conventions and the resources of language contribute to effectiveness in writing. Taking the AP Exam in May is recommended.</p>					
<div style="border: 1px solid black; padding: 2px; display: inline-block;">HGE</div>	<b>606</b>	<b>^ADVANCED PLACEMENT: LITERATURE &amp; COMPOSITION - weighted</b> <b>Full Year 1 Credit Grade</b> <b>Optional: MN State College Credit - Intro to Literature - ENGL 2565 - 3 semester credits</b> <b>&amp; College Writing II - ENGL 2525 - 3 semester credits</b> Prerequisite: College Composition, plus either World Lit I and World Lit II; <b>OR</b> AP Language and Composition. A reading comprehension score of 250 or higher on the ACCUPLACER NextGen Test.			
<p>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.</p>					
	<b>629</b>	<b>NATIVE LITERATURE</b> Prerequisite: Successful completion of LA 9 and LA 10	<b>Semester</b>	<b>.5 Credit</b>	<b>Grades 11-12</b>
<p>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 with special attention to local Minnesota tribes such as Dakota and Anishinaabe as well as global voices such as the Sami, Metis, Maori, Inuit, and many others. Work will include creation tales as well as a choice research project on an aspect of indigenous culture.</p>					



623

**THEATER**

Semester

.5 Credit

Grades 10-12

BCA

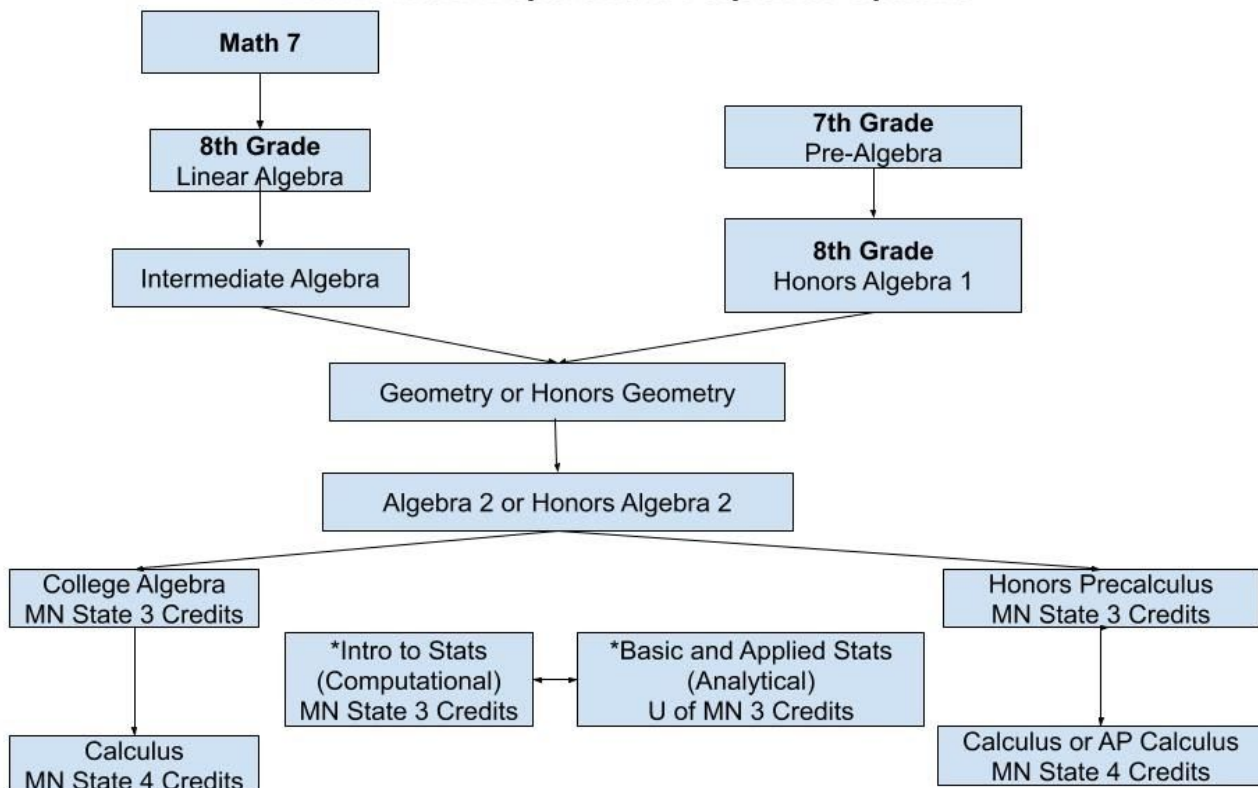
This course will be offered first semester every other year.

Prerequisite: Successful completion of one full year of language arts classes.

**Note:** Theatre **does not** earn a Red Wing High School 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.

### RWHS Math Department Sequence Options



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

## MATHEMATICS 9-12

Students can move in and out of enriched math courses based on individual learning needs and with teacher recommendation from year to year.

### 705 INTERMEDIATE ALGEBRA

Full Year

1 Credit

Grades 9 -12

Prerequisite: Linear Algebra or Pre-AP Algebra or Recommendation of Math Instructor

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.

### 710 GEOMETRY

Full Year

1 Credit

Grades 9 - 12

Prerequisite: Intermediate Algebra or Pre-AP Algebra I

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.

**713 HONORS GEOMETRY - weighted Full Year 1 Credit Grades 9 -12**  
 Prerequisite: Honors Algebra I or Intermediate Algebra with a B- or higher for a grade  
 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. Additional homework is assigned.

**715 ALGEBRA II Full Year 1 Credit Grades 10-12**  
 Prerequisite: Intermediate Algebra or Honors Algebra I, Geometry  
 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.

**716 HONORS ALGEBRA II - weighted Full Year 1 Credit Grades 10-12**  
 Prerequisite: Intermediate Algebra or Honors Algebra I, Honors Geometry or Geometry  
 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.

HAS

**720 BASIC AND APPLIED STATISTICS (Analytical) - weighted Full Year 1 Credit Grades 11-12**  
**Optional: U of MN College Credit - EPSY 3264 - 3 semester credits**

MET  
BCA

Prerequisite: Algebra 2 or Honors Algebra 2  
 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.

HAS

**722 ^INTRO TO STATS (Computational) - weighted Full Year 1 Credit Grades 11-12**  
**Optional: MN State College Credit - MATH 1230 - 3 semester credits**

MET  
BCA

Prerequisite: Algebra 2 or Honors Algebra 2  
 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.

HAS

**724 ^COLLEGE ALGEBRA - weighted Full Year 1 Credit Grades 11-12**  
**Optional: MN State College Credit - MATH 1220 - 3 semester credits**

MET  
BCA

Prerequisite: Algebra II  
 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 is discussed.

HAS

**725 ^HONORS PRECALCULUS - weighted Full Year 1 Credit Grades 11-12**  
**Optional: MN State College Credit - MATH 1225 - 3 semester credits**

MET  
BCA

Prerequisite: Honors Algebra II with a grade of B- or higher  
 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.

HAS

**727 ^ CALCULUS - weighted Full Year 1 Credit Grade 12**  
**Optional: MN State College Credit - MATH 2440 - 4 semester credits**  
 Prerequisite: College Algebra or Honors Precalculus





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



**729**     **^ADVANCED PLACEMENT CALCULUS** - weighted     **Full Year**     **1 Credit**     **Grade 12**  
**Optional: MN State College Credit - MATH 2440 - 4 semester credits**  
 Prerequisite: Honors Precalculus with a B- or higher



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**

**NOTE:** 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 in 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.



**200**     **FRESHMAN BAND**     **Full Year**     **1 Credit**     **Grade 9**  
 Prerequisite: Successful completion of 8th Grade Band or Permission of Instructor

This band is the continuation of the Twin Bluff Middle School Program. Techniques for performance will be rehearsed through a variety of band literature. Concert attendance and lessons are a part of class.



**202**     **SYMPHONIC BAND**     **Full Year**     **1 Credit**     **Grades 10-12**  
 Prerequisite: Successful Completion of Freshman Band or Permission of Instructor

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.



**203**     **CONCERT BAND**     **Full Year**     **1 Credit**     **Grades 11-12**  
 Prerequisite: Successful Completion of Symphonic Band and/or Permission of Instructor through placement exam.

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.



**205**     **JAZZ LAB**     **Full Year**     **1 Credit**     **Grades 10-12**  
 Prerequisite: Successful Completion of Symphonic Band and/or Permission of Instructor through placement exam.

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.



**208**     **CHOIR 9**     **Full Year**     **1 Credit**     **Grades 9**  
 Prerequisite: 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 participation is required, resulting in a solid, professional concert performance. Three required concerts are performed each year.

**210 BELLA VOCE (Women's Choir)** **Full Year** **1 Credit** **Grades 10-12**  
**BCA** Prerequisite: Preferably 9<sup>th</sup> Grade Choir but not mandated  
 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 contest. This choir is designed for all sophomore females and for juniors and seniors not enrolled in Concert Choir.

**212 CONCERT CHOIR** **Full Year** **1 Credit** **Grades 10-12**  
**BCA** Prerequisite: Audition required with instructor prior to enrollment  
 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 contest. 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 Physical Science (or Honors Physical Science) and one credit of Biology (or AP Biology), and one credit of Chemistry, Honors Chemistry, 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.

**REQUIRED SCIENCE CLASSES**

	8 <sup>th</sup>	Freshman Yr.	Sophomore Yr.	Junior Yr.	Senior Yr.
<b>Minimum required track</b>	Earth Science	Physical Science	Biology	Chemistry	Any Elective
<b>Recommended College track</b>	Earth Science	Physical Science <b>or</b> Honors Physical Sci.	Biology	Chemistry	AP Physics <b>or</b> Anatomy & Phys. <b>or</b> Science Elective
<b>Recommended AP track</b>	Earth Science	Honors Physical Sci. and Biology	Chemistry <b>and/or</b> AP Biology <b>and/or</b> Anatomy & Phys.	1-2 Science Electives	1-2 Science Electives
<b>Electives</b>	Anatomy and Physiology, College Organic and Biochemistry, AP Chemistry, AP Physics, AP Biology				

**LIFE SCIENCES**

**805 BIOLOGY** **Full Year** **1 Credit** **Grades 9-12**  
**HAS** Prerequisite: May be concurrent with Honors Physical Science in Grade 9 with instructor approval. **REQUIRED or AP BIOLOGY**  
 The first semester includes a study of insects, techniques in using the microscope and stereomicroscope, 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.

**840 ^ADVANCED PLACEMENT BIOLOGY - weighted** **Full Year** **1 Credit** **Grades 10-12**  
**HAS** Prerequisite: Pre AP Physical Science or instructor approval.

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.

HAS

**830 HUMAN ANATOMY AND PHYSIOLOGY - weighted Full Year 1 Credit Grades 10-12**  
 Prerequisite: Biology and Honors Chemistry (may be concurrent)  
 This is a full-year course in human anatomy and physiology. Course content will include topics on orientation, basic chemistry, biochemistry, cell, and body tissues (epithelial, muscle, nervous). The body systems will be covered going into structure and function of the skin, skeletal, muscular, and nervous (eye, ear, taste, smell) systems, the endocrine system, blood, cardiovascular system, lymphatic, respiratory, digestive, urinary, and reproductive systems. The course will involve hands-on dissection, labs, and projects to understand the body systems.

**PHYSICAL SCIENCES**

**800 PHYSICAL SCIENCE Full Year 1 Credit Grade 9**  
 Prerequisite: None **REQUIRED or HONORS PHYSICAL SCIENCE**  
 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 and energy. Second semester covers matter, atomic structure, periodic table, chemical bonds and reactions.

**801 HONORS PHYSICAL SCIENCE Weighted Full Year 1 Credit Grade 9**  
 Prerequisite: None  
 This is a year-long course studying fundamental chemistry and physics principles. Material will be covered in greater detail and faster pace than the general physical science course, anticipating the more rigorous science AP classes will be taken later. Strong math and reading skills will be required.

**825 CHEMISTRY Full Year 1 Credit Grades 10-12**  
 Prerequisite: Physical Science, Algebra II (may be concurrent) Grade 10 Instructor approval  
 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.

HAS

**826 ^ADVANCED PLACEMENT CHEMISTRY - weighted Full Year 1 Credit Grades 11-12**  
**THIS COURSE OFFERED OPPOSITE YEARS TO COLLEGE ORGANIC AND BIOCHEMISTRY- OFFERED 22-23**  
 Prerequisite: Chemistry (If taken before 2021-2022 yr)  
 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.

HAS

**827 ^COLLEGE ORGANIC AND BIOCHEMISTRY- weighted Full Year 1 Credit Grades 11-12**  
**Optional: MN State College Credit - CHEM 2518 - 4 semester credits**  
**THIS COURSE OFFERED OPPOSITE YEARS TO AP CHEMISTRY- OFFERED 21-22**  
 Prerequisite: Chemistry, Accuplacer Exam and College Application  
 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.

**851**    **^ADVANCED PLACEMENT PHYSICS - weighted**    **Full Year**    **1 Credit**    **Grades 11-12**

HAS  
MET

Prerequisite: Algebra II

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.

**811**    **ENVIRONMENTAL CHEMISTRY**    **Full Year**    **1 Credit**  
**Grades 10-12**    Prerequisite: Biology **REQUIRED**

HAS

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.

**SOCIAL SCIENCES 9-12**

COURSE	LENGTH	OPEN TO:	PREREQUISITE
<b>Required To Graduate</b>			
World History	Full Year	Grade 9	None
U.S. History or AP U.S. History	Full Year	Grade 10	World History
Economics	One Semester	Grades 11 or 12	World & U.S. History
World Geography	One Semester	Grades 11 or 12	World & U.S. History
American Government	One Semester	Grade 12	World & US History
<b>Electives</b>			
AP U.S. History	Full Year	Grades 10-12	World
AP World History	Full Year	Grades 11-12	World & U.S. History
World Religions	One Semester	Grades 10 - 12	World
High School Psychology	One Semester	Grades 11 or 12	World & U.S. History
College Psychology	One Semester	Grades 11 or 12	World & U.S. History
AP Economics	Full Year	Grades 11 or 12	World & U.S. History
AP Human Geography	Full Year	Grades 10 - 12	World

**921**    **WORLD HISTORY**    **Full Year**    **1 Credit**    **Grade 9**  
Prerequisite: None    **REQUIRED**

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.

**905**    **UNITED STATES HISTORY**    **Full Year**    **1 Credit**    **Grade 10**  
Prerequisite World History    **REQUIRED OR AP US HISTORY**

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.

**906**    **^ADVANCED PLACEMENT UNITED STATES HISTORY - weighted**    **Full Year**    **1 Credit**    **Grades 10 -12**

Prerequisite: World History

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.

**912 ECONOMICS** Semester .5 Credit Grades 11-12  
HGE Prerequisite: World History and U.S. History **REQUIRED or a full year of AP Economics**  
This course begins with an introduction to basic economic terminology and systems. The remainder of the semester will cover both micro and macro-economic 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 macro-economic units.

**915 WORLD GEOGRAPHY** Semester .5 Credit Grades 11-12  
HGE Prerequisite: World History and U.S. History **REQUIRED or a full year of AP Human Geography**  
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.(Delete Highlight) 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.

**916 ^ADVANCED PLACEMENT WORLD HISTORY - weighted** Full Year 1 Credit Grades 11 -12  
HGE Prerequisite: World History and U.S. or AP U.S. History  
This course will provide students a greater understanding of the evolution of global processes and contacts in different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. Students will learn the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. The course has as its chronological frame the period from approximately 8000 BCE (before the common era) to the present, with the period 8000 BCE to 600 CE (common era) serving as the foundation for the balance of the course. Students taking AP World History may want to consider also taking AP Art History.

**913 WORLD RELIGIONS** Semester .5 Credit Grades 10-12  
HGE Prerequisite: World History  
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.

**920 HIGH SCHOOL PSYCHOLOGY** Semester .5 Credit Grades 11-12  
HGE Prerequisite: World History and U.S. History  
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.

**922 ^COLLEGE PSYCHOLOGY - weighted** Semester .5 Credit Grades 11-12  
HGE **Optional: MN State College Credit - 4 Semester Credits - PSYC 2515**  
Prerequisite: World History and US History, ACCUPLACER Assessment Test for all students. High school juniors: Class rank in the top third of the class, OR have a reading comprehension score of 78 or higher on the ACCUPLACER Test. High school seniors: Class ranks in the upper one half of the class OR reading comprehension scores of 78 or higher on the ACCUPLACER Test.  
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.

**HGE** **910**    **^ADVANCED PLACEMENT ECONOMICS - weighted Full Year 1 Credit Grades 11 -12**  
**THIS COURSE OFFERED OPPOSITE YEARS TO AP GEOGRAPHY - OFFERED 21-22**  
 Prerequisite: World History and U.S. or AP U.S. History  
 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.

**HGE** **917**    **^ADVANCED PLACEMENT HUMAN GEOGRAPHY - weighted Full Year 1 Credit Grades 10 -12**  
**THIS COURSE OFFERED OPPOSITE YEARS TO AP ECONOMICS - OFFERED 22-23**  
 Prerequisite: World History  
 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.

**HGE** **918**    **AMERICAN GOVERNMENT AND POLITICS Semester .5 Credit Grade 12**  
**REQUIRED**  
 Prerequisite: U.S. History, World History  
 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 LANGUAGES 9-12**

**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.

Note: If students want to be eligible for the college credit German class at the high school, they must begin Level I German in either 8<sup>th</sup> or 9<sup>th</sup> grade. (The college credit class is the German IV/ College in the Schools credit program.)

**HGE** **640**    **GERMAN I Full Year 1 Credit Grades 8-12**  
 Prerequisite: 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.

**HGE** **642**    **GERMAN II Full Year 1 Credit Grades 9-12**  
 Prerequisite: Successful Completion of German I  
 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.

**644 GERMAN III - weighted Full Year 1 Credit Grades 10-12**

HGE

Prerequisite: Successful Completion of German II

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.

**646 GERMAN IV - weighted Full Year 1 Credit Grades 11-12**

Prerequisite: Successful Completion of German III

Level IV will continue to improve on skills learned previously. There will be advanced work in composition, conversation, and grammar. The University of Minnesota's Intermediate German curriculum will be used. 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.

**649 ^GERMAN IV - weighted Full Year 1 Credit Grades 11- 12**  
**Required: University of MN - GERM 1003 (5 semester credits) & GERM 1004 (5 semester credits)**

Prerequisite: Recommendation of German Teacher/academic standing.

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.

**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.

GRADE	AP TRACK/COLLEGE CREDIT TRACK
8	Spanish I
9	Spanish II
10	Spanish III
11	Spanish IV
12	SENIOR SPANISH/ College in the Schools Credit Program

\*If students want to be eligible for the college credit Spanish class at the high school they MUST begin Level I Spanish in 8<sup>th</sup> grade. See above.

**658 SPANISH FOR HERITAGE LEARNERS Full Year 1 Credit Grades 8 - 12**

Prerequisite: Students in grades 8-12 who are native/heritage speakers of Spanish or have successfully completed Spanish III

Spanish for Heritage Learners is designed specifically for native/heritage speakers of Spanish who already have some oral language proficiency. The purpose of this course is to enable students whose heritage language is Spanish or who have developed a significant proficiency in the language, to develop, maintain, and enhance their skills in Spanish by providing them the opportunity to listen, speak, read, and write in a variety of contexts and for a variety of audiences including the family, school and the community. This class will also allow students to explore the various cultures of the Hispanic world.

**650 SPANISH I Full Year 1 Credit Grades 8 - 12**

HGE

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.

**652 SPANISH II Full Year 1 Credit Grades 9 - 12**

HGE

Prerequisite: Successful Completion of Spanish I

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.

**654 SPANISH III -weighted Full Year 1 Credit Grades 10-12**

HGE

Prerequisite: Successful Completion of Spanish II

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.

**656 SPANISH IV -weighted Full Year 1 Credit Grades 11- 12**

Prerequisite: Successful Completion of Spanish III

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.

**659 ^SPANISH V - weighted Full Year 1 Credit Grade 12**

**Required: University of MN - SPAN 1003 - 5 semester credits**

Prerequisite: Spanish IV and recommendation of Spanish Teacher/academic standing.

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.

**660 SPANISH V Weighted Full Year 1 Credit Grade 12**

Prerequisite: Successful completion of Spanish IV

Students in this class will complete the University of Minnesota Intermediate Spanish course. A course syllabus and the 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.

### ADDITIONAL CREDIT PROGRAMS

**132 S.O.A.R. (Success, Opportunity, Achievement, Recognition) Full Year 1 Credit Grades 11-12**

BCA

Prerequisite: Instructor Approval

While you may not fill leadership roles in the future, the skills necessary to be a leader will positively impact your life. Like leaders, all students need to be responsible, display compassion, communicate effectively, create consensus, and more. While we are all aware of these qualities, we do not often get the chance to develop them in a formalized school setting. In this seminar and project based class, students will read and discuss leadership qualities, study their own leadership style, learn how their personality type affects leadership, write a personal philosophy of leadership and participate in collaborative projects to improve both the school and the community. Students will also carry our tasks in conjunction with other RWHS clubs and continue the SOAR recognition projects.

**135 MATH ASSISTANT Semester .5 Credit Grades 11-12**

Prerequisite: Algebra and Geometry

Note: **A student may only serve as a TA one semester throughout the course of their high school career.**

Under the direction of an assigned math teacher, a student will receive credit for assisting students in the classroom. The assistant will be expected to attend class and take notes on a daily basis. Answering students' questions, taking notes for students with special needs, and tutoring students who have been absent will be some of the duties assigned to the assistant. The student will be expected to know Algebra and Geometry, as well as have a positive attitude, and a good attendance record. Students in this program do not earn a letter grade, but are graded on a pass/fail basis.

**367 YEARBOOK PUBLICATION Full Year 1 Credit Grades 10-12**

BCA

Prerequisite: Student Application and interview. Registration will be contingent on successful admittance. Interviews will be conducted in March.

Special Notes: **Limited enrollment to 25 students-10 Seniors, 8 Juniors, 7 Sophomores. Students may take the course once for credit.**



The publication of the Scarlet Feather yearbook is a process that requires proficiency in wide-ranging skills including writing, graphic art, accurate documentation, photography, teamwork, leadership, sales and advertising. The course will instruct students in the skills and knowledge required to carry out the process. Students enrolled in Yearbook Publication during the school day will often work after school hours. Teacher approval is required.

HAS

**222 HEALTHCARE CAREER EXPLORATION Semester 1 Credit Grade 12**

Prerequisite: **Human Anatomy & Physiology and Student Application & Faculty Committee Review**

Course Requirements: Students will be required to attend a multiple day orientation covering topics on confidentiality and Hospital/Clinic Policies at the beginning of the semester and are required to follow them. Students are required to transport themselves to the medical provider location. Students will be provided hospital scrubs and will wear them daily. \*Good daily attendance is required.

This course meets daily for one semester and is a collaborative partnership with Red Wing community medical providers. Students will be introduced to healthcare career opportunities. Students will complete a weekly rotation through a different hospital/medical department learning about that department from professional staff. This experience is designed to provide students with a broad exposure to multiple healthcare careers in the medical system. Students will maintain a journal of their experiences. Students will be assigned outside readings of relevant medical journal articles. Students will also take their experiences and apply them in formal class presentations during each quarter.

**006 RELATIONSHIPS EDUCATION ACCOUNTABILITY CHARACTER HARD WORK (REACH) Grades 9-12**

Prerequisite: Student Application and Interview. Registration will be contingent on successful admittance. The REACH teachers will schedule interviews. Applications are available from all school counselors.

**Special Notes:** Enrollment is limited. Students may take the course more than once continued credit.

The course’s mission statement is to, “REACH out to all students using Relationships, Education Accountability, Character, and Hard Work so they can be successful and attain their place in life.” To support students in succeeding in all these areas, the REACH staff strives to meet each student where he/she is and understand their story in life. Classes consist of a blend of character lessons, social-emotional learning, academic support, team building, and more. Students are expected to sign and buy-in to a contract emphasizing school attendance, grades, and behavior. Students willing to work with the REACH staff to be honest and willing to make change through setting and achieving goals can truly thrive through this class.

**0128 FLIGHT PATH INTERNSHIP Semester .5 Credit Grades 11-12**

Prerequisite: Application, Related Coursework/Extracurriculars

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

**English Learners**

**125 EL GRADES 9/10 Full Year 1 Credit Grades 9-12**  
**126 EL GRADES 11/12**

Prerequisite: EL Services and Permission of Instructor

In this class, students acquire basic English vocabulary and grammar structure including present tense; using and understanding simple commands; and expressing needs, likes, and wants in speaking and in writing. Students in this class are just developing their literacy skills in English.

This course is designed to build on English vocabulary and grammar structure including past tense; following multi-step directions with visual support; synthesizing information from written and auditory sources with assistance; and expressing thoughts and understanding orally and in writing. Students are working to improve all language skills in English to the point where students can be successful in mainstream classrooms without EL support.

This course is designed to build on English vocabulary and grammar structure including future and conditional tenses; following multi-step directions without visual support; synthesizing information from multiple inputs independently; and expressing thoughts and understanding orally and in writing with limited errors. Students will improve all language skills in English to the point where students can be successful in mainstream classrooms without EL support.

This class provides students support for increased success for students in mainstream classes. Students will have time to work with an EL teacher as well as classroom teachers in order to better learn the material taught in mainstream classes. They also have the opportunity to use school technology during this class.

## INDIVIDUALIZED CREDIT PROGRAMS

**These courses all have the requirement for students to be receiving special education services. IEP Teams will meet to determine the most appropriate courses based on individual needs.**

<b>137</b>	<b>PERSONAL MATH</b>	<b>Full Year</b>	<b>1 Credit</b>	<b>Grades 8-12</b>
Personal Math is a course developed to meet the student's needs as a consumer, both now and in the future. Areas covered include: budgeting, banking, paychecks, taxes, shopping, and other everyday money and math matters. This class meets every day.				
<b>139</b>	<b>MATH 180</b>	<b>Full Year</b>	<b>1 Credit</b>	<b>Grades 10-12</b>
This class is for the student who is not quite ready to go into general education math, but who is not appropriate for personal math.				
<b>157</b>	<b>PERSONAL ENGLISH</b>	<b>Full Year</b>	<b>1 Credit</b>	<b>Grades 8-12</b>
Personal English is a course designed for practical application of skills necessary to succeed in "real life". The course has a strong emphasis on skills necessary for vocational success. This class meets every day.				
<b>169</b>	<b>MATH FOR DAILY LIVING</b>	<b>Full Year</b>	<b>1 Credit</b>	<b>Grades 9-12</b>
In a supportive atmosphere, students who have experienced difficulty succeeding in general math classes receive individualized instruction in math. Materials are chosen to meet the needs of each student. Students are encouraged to self-monitor and work at a comfortable pace.				
<b>170</b>	<b>ENGLISH FOR DAILY LIVING</b>	<b>Full Year</b>	<b>1 Credit</b>	<b>Grades 9-12</b>
This course is designed for students who have not experienced success in large general education language classes. A variety of topics are explored with the main emphasis on building reading and writing skills. Reading comprehension and writing effectively are the core skills of the class.				
<b>156</b>	<b>COMPREHENSIVE STUDIES</b>	<b>Full Year</b>	<b>1 Credit</b>	<b>Grade 8-9</b>
This course is designed as a resource class, students will receive assistance in all areas of instruction. Organizational skills, time management, and task completion will be emphasized in this course. Support from adults will be provided. This time will be used for work completion, re-teaching and working on IEP goals.				
<b>171</b>	<b>TRANSITION STUDIES</b>	<b>Full Year</b>	<b>1 Credit</b>	<b>Grades 10-12</b>
This graded study hall is designed to support students with their emotional and behavioral needs addressing needs on their individual education plans. The emphasis is on learning transition and study skills. There is on-going communication between EBD staff and general education staff to monitor and assist with accommodation needs in the general curriculum.				
<b>172</b>	<b>SCIENCE FOR DAILY LIVING</b>	<b>Full Year</b>	<b>1 Credit</b>	<b>Grades 9-12</b>
Students will explore various science topics through a variety of methods, including experiments, field trips, multimedia, independent studies and traditional methods. Individual modifications and accommodations are used to structure lessons.				
<b>173</b>	<b>SOCIAL FOR DAILY LIVING</b>	<b>Full Year</b>	<b>1 Credit</b>	<b>Grades 10-12</b>
On a three-year rotation, the subjects of United States History, World Geography, Economics, and Western Civilization are taught in a manner which links textbook information with real-life application. Current events are explored on a weekly basis to tie the past to the present. There is much emphasis on classroom discussion in a safe atmosphere where individual assignments and small and large group work are completed.				
<b>218</b>	<b>ADAPTED PHYSICAL EDUCATION</b>	<b>Full Year</b>	<b>1 Credit</b>	<b>Grades 9-12</b>
Developmental adapted physical education instruction includes development of physical fitness, fundamental motor skills, dance, sport, and active recreational activities. An emphasis is placed on teaching skills and activities that will be useful to students after they leave the school setting.				
<b>948</b>	<b>HOME LIVING</b>	<b>Full Year</b>	<b>1 Credit</b>	<b>Grades 8-12</b>
This class will vary according to the individual student's ability and needs. The student will learn to wash and dry hands, identify foods and utensils, set tables and prepare simple snacks. Students will work on listening and following directions. Students will work on identifying foods and utensils, kitchen safety, measuring, table manners, laundry skills, and simple food preparation.				
<b>955</b>	<b>FUNCTIONAL SKILLS</b>	<b>Full Year</b>	<b>1 Credit</b>	<b>Grades 8-12</b>

This class will work on basic language concepts along with basic writing skills.

**158 INDEPENDENT SKILLS Full Year 1 Credit Grades 8-12**

This course assists in the development of personal needs necessary for independent functioning.

**141 WORK EXPERIENCE ON-THE-JOB TRAINING Semester .5 Credit Grades 11-12**

Students in the Work Experience Program will receive training on specific job sites. These jobs may be in school or in the community.

**148 WORK EXPERIENCE I Semester .5 Credit Grades 10-12**

As this course is designed for students having difficulty in vocational programs, its main goal is to prepare students for independent employment through instruction in those areas directly involved with employment, and supervised on-the-job training. Concentrated instruction includes the following areas: job search skills, career exploration, and learning to get along on the job, social skills, and self-perception.

**149 WORK EXPERIENCE II Semester 1 Credit Grades 11-12**

As this course is designed for students having difficulty in vocational programs, its main goal is to prepare students for independent employment through instruction in those areas directly involved with employment and supervised on-the-job training. Concentrated instruction includes the following areas: job search skills, career exploration, and learning to get along on the job, social skills, and self-perception.

**954 SOCIAL SKILLS Semester .5 Credits Grades 8/12**

Students will learn about the hidden curriculum, social skills to be used in a variety of settings and self regulation.

**957 TEAMWORK ADVENTURES Semester .5 Credits**

Students will acquire hands on skills while learning to work as part of a team.

**970 TRANSITION PROGRAM**

Prerequisite: IEP Students must be 18-21 years old and have completed 12th grade. Services primarily for students with moderate to severe disabilities.

This transition course is to prepare students for success in adult life by facilitating generalization of skills into natural environments and providing individualized instruction in the 5 transition areas.



**Red Wing Public Schools**  
**2451 Eagle Ridge Drive**  
**Red Wing, MN 55066**

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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. For claims of discrimination, the School District has designated the following individuals to coordinate compliance with the Americans with Disabilities Act (ADA), Section 504 of the Rehabilitation Act of 1973, and Title IX of the Education Amendments Act of 1972:

ADA and Section 504 Coordinator	Alternate
<p>Ms. Cherie Johnson            Executive Director of GCED            395 Guernsey Lane            Red Wing, MN 55066</p> <p>Phone: 651-388-4441            Email: <a href="mailto:cjohnson@rwps.org">cjohnson@rwps.org</a></p>	<p>Ms. Sonia Smith, Director of Special Education Services            Red Wing Public Schools            2451 Eagle Ridge Drive            Red Wing, MN 55066</p> <p>Phone: 651-385-4504            E-Mail: <a href="mailto:srsmith@rwps.org">srsmith@rwps.org</a></p>

Title IX Coordinator	Alternate
<p>Jess Whitcomb, Director of Student Support Services            Red Wing Public Schools            2451 Eagle Ridge Drive            Red Wing, MN 55066</p> <p>Phone: 651-385-4504            E-Mail: <a href="mailto:jwhitcomb@rwps.org">jwhitcomb@rwps.org</a></p>	<p>Amy French, Human Resources            Red Wing Public Schools            2451 Eagle Ridge Drive            Red Wing, MN 55066</p> <p>Phone: 651-385-4500            E-Mail: <a href="mailto:asfrench@rwps.org">asfrench@rwps.org</a></p>

