



**Gillett High School**  
**Course Description Booklet**  
**2025-2026**

## TABLE OF CONTENTS

SCHEDULING BASICS	3
DROPPING/ADDING CLASSES	4
INCOMPLETES	4
GRADUATION REQUIREMENTS	5
-FRESHMAN REQUIRED CLASSES	
-SOPHOMORE REQUIRED CLASSES	
-JUNIOR REQUIRED CLASSES	
-SENIOR REQUIRED CLASSES	
4-YEAR COURSE PLANNING WORKSHEET	6
UW ADMISSION REQUIREMENTS	7
WI PRIVATE COLLEGE ADMISSION REQUIREMENTS	7
WI TECHNICAL COLLEGE ADMISSION REQUIREMENTS	8
CLASS RANK	8
WEIGHTED GRADES	8
CMN LEARN AND EARN PROGRAM	8
NCAA CLEARINGHOUSE ELIGIBILITY	9
YOUTH APPRENTICESHIP PROGRAMS	10
DUAL ENROLLMENT	10
OTHER COLLEGE CREDIT OPPORTUNITIES	11
IMPORTANT SCHEDULING POINTS	11-12
COURSE DESCRIPTIONS	
Agriculture	12-14
Art	14-15
Business	16-17
Communication Arts (English)	18-19
World Language	20
Independent Study	21
Mathematics	22-24
Music	24-25
Natural Science	25-27
Physical/Health Education	28-29
Social Studies	29-30
Technology Education	31-34

Gillett School District does not discriminate based on sex, race, national origin, ancestry, creed, sexual orientation, or physical, mental, emotional, or learning disability.

## NON-DISCRIMINATION STATEMENT

It is the policy of the Gillett School District that no person shall, on the basis of race, color, national origin, sex, age, or handicap, be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity and in employment.

## MISSION STATEMENT

**The mission of the Gillett School District is to offer students a high quality educational experience in a secure learning environment which recognizes values and responds to student's individual needs.**

## WHY HAVE A SCHEDULING BOOKLET???

The purpose of this student scheduling booklet is to familiarize you with the policies, credits, requirements, and courses for Gillett High School. It is important for you and your parent(s)/guardian(s) to read the booklet carefully.

While using this booklet to select your courses for next school year, keep in mind that the courses you take will set the foundation for your occupational goals in life. If you have any questions or would like assistance in planning your schedule, please contact your advisor/homeroom teacher. If you would like information on occupations and courses required for an occupation, look online at Xello or ask the school counselor.

## SCHEDULING BASICS AT GILLETT HIGH SCHOOL

Gillett High School operates under a semester course program. This means that students will select separate courses for two separate semesters. Many courses are year-long while others are offered by the semester. Although a course may be one year (two semesters) in length, students will have the option to continue the course or drop it at the end of the first semester unless it is required. However, students must realize that most classes do not have openings during drop/add, and that schedule changes can only be allowed if space permits. Therefore, students must be careful in their course selection – realizing that they may not be able to change their schedules. The first semester of a one-year course will be identified with the letter “A” while the second semester will be identified with the letter “B”.

The 8 period day at GHS:

- Most classes meet in 8 periods of 48 minutes each.
- Students take 7 classes (3.5 credits) and 1 guided study per semester.
- Most classes are year-long classes (2 semesters). Some classes meet only in the Fall Semester or Spring Semester.

When and how classes meet at GHS:

- As a general rule, a class is awarded one tenth (0.1) credit for each hour it meets during the week.
- Most classes meet 5 days a week, for one semester for 0.5 credits

## REGULAR SCHEDULE

7:55 – 8:42	Period 1
8:45 – 9:32	Period 2
9:35 – 10:22	Period 3
10:25 – 11:12	Period 4
11:12 – 11:42	H.S. Lunch
11:45 – 12:32	Period 5
12:35 – 1:35	Period 6
1:38 – 2:25	Period 7
2:28 – 3:15	Period 8

## **DROPPING/ADDING CLASSES/SCHEDULE CHANGES**

Student course selections drive scheduling and staffing needs of the high school. Because of this, care and concern **must** be made when students and their parents select courses for the upcoming school year. Because student course selection impacts budget and staffing, it is necessary to establish the following procedures for scheduling:

1. If a student would like to drop/add a class that he/she has chosen, it must be taken care of during drop/add periods. Drop/add will take place before the semester begins as well as during the first **three** days of the first semester. Students wishing to change their second semester schedule must do so prior to the start of the second semester. All schedule changes need the approval of the teachers involved and the student's parents/guardians.

Please note that schedule changes will only be made for the following reasons:

- Failure to meet the course prerequisite
  - A different course is required based on a failure or a noted deficiency in academic preparation leading towards graduation
  - Recommendation from a post secondary institution that a course is needed for meeting college entrance requirements
  - Completion of summer school course work that makes a class being taken no longer necessary
  - Teacher recommendation that a course placement was not appropriate
  - A sequencing error occurs in the scheduling of classes
  - A scheduling conflict in the master schedule makes the student's schedule unworkable
2. Schedule changes may be considered or allowed if the proposed change in courses does not place the courses in question above or below enrollment capacity numbers.
  3. Students are required to take a minimum of 3.5 credits each semester of high school. No student will be allowed to drop courses if the drop places him/her below the minimum course load requirements.
  4. Special circumstances that fall outside the criteria established above will be considered only upon written request of the parent and student. Such requests will be sent to the principal for final consideration.
  5. No student will be allowed to drop any class after the third day of the first semester or after the second semester has begun. Any class dropped after that point will result in a semester grade of "F" on the permanent record.

## **INCOMPLETES**

When a student is missing a major project, test, or final exam because of an excused absence, the teacher has the option of issuing an Incomplete (I) grade for the grading period. In this event, students are given one calendar week (7 days) to complete the missing work. If the work is not finished within these 7 days, the missing work will be given a grade of F. Extenuating circumstances must be approved by the principal.

## **GRADUATION REQUIREMENTS**

All students are required to earn 24 credits for graduation from Gillett High School. Each student is required to take a minimum of 3.5 credits per semester. During the four years of high school, each student is required to pass the following courses:

- Eight (8) semesters of Communication Arts (English)\* 4.0 credits
- Six (6) semesters of Social Studies\* 3.0 credits
- Six (6) semesters of Mathematics\* 3.0 credits
- Six (6) semesters of Science\* 3.0 credits
- Three (3) semesters of Physical Education\* 1.5 credits
- One (1) semester of Health 0.5 credits
- One (1) semester of Personal Finance 0.5 credits
- Eight and a half (8.5) Elective credits 8.5 credits

\*See department lists for specific course requirements.

## **FRESHMAN REQUIRED COURSES**

Required Courses:

English 9/Honors English 9	1.0 credit
Pre-Alg./Algebra/Geometry	1.0 credit
Modern US History	1.0 credit
Physical Science	1.0 credit
Health	0.5 credit
PhyEd 9/10	0.5 credit

## **SOPHOMORE REQUIRED COURSES**

Required Courses:

English 10/Honors English 10	1.0 credit
Algebra/Geometry/Alg. II	1.0 credit
Modern World History	1.0 credit
Biology	1.0 credit
Phy Ed 9/10, Personal Fitness/Wellness, or Strength & Cond	0.5 credit

## **JUNIOR REQUIRED COURSES**

Required Courses:

English 11/ English 11	1.0 credit
Geometry/NWTC College Technical Math/Alg II/ UW-GB Pre-Calc	1.0 credit
Life Sports (can be taken junior or senior year)	0.5 credit
US Government	0.5 credit
Social Studies Elective course (can be taken junior or senior year)	0.5 credit
Science Electives courses (can be taken junior or senior year)	1.0 credit

## **SENIOR REQUIRED COURSES**

Required Courses:

English 12/NWTC English Composition I & Oral/Interpersonal Communication	1.0 credit
Personal Finance	0.5 credit

## 4- Year Course Planning Worksheet

(see graduation requirements for each year)

### Freshman Year

Subject Area	Course Name	Credit
English	English 9 / English 9	1.0
Science	Physical Science	1.0
Phy. Ed.	P.E. 9/10	.5
Math		1.0
Health	Health	.5
Social Studies	Modern US History	1.0
Elective		.5
Elective		.5
Elective		.5
Elective		.5
<b>Total</b>		<b>7.0</b>

### Junior Year

Subject Area	Course Name	Credit
English	English 11/ English 11	1.0
Math		1.0
Phy. Ed.	Life Sports	.5
Social Studies	US Govt & Other Elective	1
Science		1
Elective		.5
Elective		.5
Elective		.5
Elective		.5
Elective		.5
<b>Total</b>		<b>7.0</b>

### Sophomore Year

Subject Area	Course Name	Credit
English	English 10/ English 10	1.0
Social Studies	Modern World History	1.0
Science	Biology	1.0
Phy. Ed.	P.E. 9/10/Pers. Fit/Str & Cond	.5
Math		1.0
Elective		.5
Elective		.5
Elective		.5
Elective		.5
Elective		.5
<b>Total</b>		<b>7.0</b>

**Total Credits Required for Graduation = 24**

### Senior Year

Subject Area	Course Name	Credit
English	English 12 or NWTC English Classes	1.0
Business	Personal Finance	.5
Elective		.5
Elective		.5
Elective		.5
Elective		.5
Elective		.5
Elective		.5
Elective		.5
Elective		.5
Elective		.5
<b>Total</b>		<b>7.0</b>

## UNIVERSITY OF WISCONSIN SYSTEM REQUIREMENTS

Admission requirements for the UW System vary from school to school. The following list should only be used as a general guideline. Specific admission requirements are available in Student Services.

Minimum course requirements for Admission:

English:	4 years (4.0 credits)
Mathematics:	3-4 years (3.0 – 4.0 credits) must include Algebra, Geometry, and Algebra II. UWGB Pre-Calculus/UWGB Calculus preferred.
Science:	3-4 years (3.0 – 4.0 credits) must include Physical Science, Biology, and an advanced Science such as Chemistry, Physics, Anatomy & Physiology, Microbiology.
Social Studies:	3 years (3.0 credits) Additional Social Science classes can be counted as College Prep Electives.
Foreign Language:	Some campuses <b>require</b> it for admission; others <b>require</b> it for graduation.
College Prep electives:	4.0 credits additional courses in English, Math, Science, or Social Studies, Foreign Language, Fine Arts, Computer Science, and other academic areas.

It is very important to remember that the requirements listed above are the MINIMUM allowed. The UW System schools are looking for students with the most rigorous high school schedules – especially during senior year.

## WISCONSIN PRIVATE COLLEGE REQUIREMENTS

As with the UW System schools, there is some variance of admission requirements between campuses. Specific admission requirements are available in Student Services.

Minimum course requirements for admission:

English:	4 years (4.0 credits)
Mathematics:	3-4 years (3.0 – 4.0 credits)
Science:	3-4 years (3.0 – 4.0 credits)
Social Studies:	3-4 years (3.0 – 4.0 credits)
Foreign Language:	Some campuses <b>require</b> it for admission; others <b>require</b> it for graduation

Other requirements include:

- ACT or SAT scores
- Strong academic record with preference given to students taking challenging courses

As with the UW System schools, the private colleges make their admission decisions based primarily on the high school record, with emphasis placed on grades earned within the context of courses taken. Rigor, especially during 11<sup>th</sup> and 12<sup>th</sup> grade, is important.

## WISCONSIN TECHNICAL COLLEGE REQUIREMENTS

Each program has specific requirements for admission. Please look online or talk to the school counselor if you need more information about the requirements of a specific program. The following courses are listed as a general guideline for admission.

English:	4 years (4.0 credits)
Mathematics:	3-4 years (3.0 – 4.0 credits) NWTC College Technical Math suggested
Science:	Depends on program
Social Studies:	Depends on program
Technical Courses:	3-4 courses in field of interest

Note: Many NWTC programs have pre-application requirements. Your best bet is to look at the NWTC online for more information on this.

## CLASS RANK

Class rank simply compares a student's performance against the performance of the other members of the class. Students and parents should be certain to check the class rank requirements for each individual post-secondary school of their choice, as there are variations from campus to campus. For example, the UW campuses usually require students to rank in at least the top 40% of the class. Some campuses are more selective and want the majority of their students ranking in the top 25% of the class. In some cases, a lower class rank will be accepted in combination with strong ACT/SAT scores.

Most of the twenty-one independent (private) colleges in Wisconsin require a rank in the top 50% of the class. Again, there is some variation in this requirement for the individual campuses so students should consult their high school counselor or college admissions counselor for specific admission requirements.

## WEIGHTED GRADES

The Gillett School District recognizes that the curriculums used for college level courses are more rigorous and places higher level expectations on students than traditional high school level courses. As such, the district will use a Weighted Grading Scale for college courses and Advanced Placement. For example, NWTC Psychology and UWGB Calculus are weighted classes on a 5.0 scale.

The Weighted Grading Scale shall be as follows:

A	5.00	B-	3.67	D+	2.33
A-	4.67	C+	3.33	D	2.00
B+	4.33	C	3.00	D-	1.67
B	4.00	C-	2.67	F	0.00

## COLLEGE OF THE MENOMINEE NATION LEARN AND EARN PROGRAM

The Learn and Earn Program allows Gillett High School 11<sup>th</sup> and 12<sup>th</sup> grade students to take one college class (3 college credits) per semester at the College of Menominee Nation (CMN). All tuition, books, and fees for the class are paid through a grant at CMN. These college credits can, in many cases, be transferred to other four-year colleges and universities as well as the technical colleges through the state. For more information, please contact the school counselor or the CMN at 715-799-5600 X3120.



## NCAA CLEARINGHOUSE INFORMATION

The NCAA Clearinghouse was set up to assist prospective student-athletes to access information needed to understand the Division I and Division II eligibility requirements, register with the Clearinghouse and access individual Clearinghouse records. Prospective college athletes must take a minimum of 16 core course credits in order to be eligible to participate in Division I and Division II athletics. **It is important to note that not all of the courses offered by Gillett High School meet the core course criteria required by the NCAA. The school counselor is available to help parents/guardians and student-athletes with the selection of courses that meet NCAA criteria, but the ultimate responsibility lies with the parent/guardian and student-athlete.**

The NCAA has established a website that includes all of the information high school athletes need to know to become eligible for college athletics. This website is <http://www.eligibilitycenter.org>. You will be able to access the Gillett High School courses that qualify as core courses. Enter GHS's school code (500725) to gain access to the approved list of courses. A copy of the "Guide for the College-Bound Student-Athlete" can also be accessed at the above site.

### Division I – 16 Core Courses

- 4 years of English
- 3 years of Mathematics (Algebra or higher)
- 2 years science
- 1 year additional English, math, or science
- 2 years social studies
- 4 years from any above area or foreign language

### Division II – 16 Core Courses\*

- 3 years of English
- 2 years of Mathematics (Algebra or higher)
- 2 years science
- 3 years of additional English, math, or science
- 2 years of social studies
- 4 years from any above area or foreign language

## ADDITIONAL PROGRAMS

The Gillett School District, in cooperation with different agencies, offers numerous learning opportunities for our high school students that are in addition to the traditional classroom environment. Below is a description of the Youth Apprenticeship program, Dual Enrollment opportunities, and Advanced Placement course offerings.

### YOUTH APPRENTICESHIP PROGRAM

- Up to 3 credits (per year) as a senior or 2 credits as a junior
- Open to juniors and seniors
- A one or two year program.

Youth apprenticeships will be available based on student interest. The student is exposed to the interview process with a potential worksite, and if chosen, will work at that site (employer) for one or two years. In addition, related instruction specific to the skills needed in these areas are taught by school staff or private sector individuals. The student will need to take a class related to that pathway (1 hour each semester).

In addition to credits towards graduation, students receive a Certificate of Occupational Proficiency from the Governor's Work-Based Learning Board and advanced standing in their program at technical colleges around the state. To sign up for this program please contact the school counselor for an application.

**NOTE:** Students who apply need to sign up for a normal load of classes at GHS. When accepted into the program, your GHS class schedule will be modified.

For more information about Youth Apprenticeship, please see Mr. Zimmerman.

### DUAL ENROLLMENT

Dual Enrollment includes a variety of programs through which high school students are enrolled in both high school and college to earn both high school and college credit. Such programs make college more affordable for families and introduce students to higher level coursework before they immerse themselves in college life. For more information please visit <https://dpi.wi.gov/dual-enrollment>. Please note that both Youth and Course Options have been replaced by Start College Now and Early College Credit Program and there are deadlines. The deadline for the application is March 1st for Fall and Oct 1st for Spring. Please turn into Mrs. Parker. If a student fails a Start College Now class then the student is required to pay the school back the cost of the class. If a student decides not to take a SCN class that they are enrolled in, then it is his/her responsibility to withdraw from the college. See School Board Policy 2271.01 at <https://go.boarddocs.com/wi/gill/Board.nsf/Public?open&id=policies#>.

NWTC Distance Learning allows our students to take NWTC classes that would otherwise be unavailable to them. These classes are taught by NWTC college professors. If a student is interested in taking a Distance Learning class, a few important points must be remembered:

- Distance Learning classes are subject to availability
- Students who take Distance Learning classes must follow the scheduled time for the class. This is especially important on late start and inclement weather days because Distance Learning courses may still take place.
- NWTC classes taken through the Distance Learning Network are Dual Enrollment- Start College Now courses. The Start College Now application is required to take a Distance Learning NWTC class. The application is due to Mrs Parker by March 1st for the fall and Oct 1st for the spring semester. If a student fails a Start College Now class then the student is required to pay the school back the cost of the class. See School Board Policy 2271.01 at <https://go.boarddocs.com/wi/gill/Board.nsf/Public?open&id=policies#>

## OTHER HIGH SCHOOL/COLLEGE CREDIT OPPORTUNITIES

Gillett High School is fortunate to offer several college courses for college credit to current GHS students. More information can be obtained by the individual course descriptions in this booklet. There are also many high school classes that can be taken online through WEN. Talk to the school counselor about taking classes related to a student's academic career plan.

## IMPORTANT SCHEDULING POINTS TO REMEMBER

- ✓ Are you meeting the graduation requirements of Gillett High School?
- ✓ Are your course selections appropriate for your Academic Career Plan (armed services, college, and work)?
- ✓ Will your course selections make you competitive when you apply to college and/or the workforce? Remember, technical and four-year colleges, and especially employers, want students who have taken the most rigorous schedule possible. The minimum will no longer cut it!
- ✓ If there is a certain class you want to take in 11<sup>th</sup> or 12<sup>th</sup> grade, are you taking the prerequisite class now? You need to plan ahead to get all of your courses in.

Our Master Schedule is based completely on what classes you choose. In other words, your class choices write the Master Schedule. Be very, very careful with your class selections. You may not be able to change your schedule around in drop/add.

**As a general rule of thumb – classes that do not have enough students signed up will not be offered. Please choose your courses wisely!**

## COURSE DESCRIPTIONS

All courses offered at Gillett High School are listed in the section by departments. Each course listed contains the following information:

- 1) Course title
- 2) Length of course (semester or year)
- 3) Number of credits/semester that the course is worth.
- 4) When it is offered (fall, spring, or both)
- 5) Brief description of course
- 6) Who should take the course (Grades 9, 10, 11, 12)
- 7) Prerequisites (This tells what the student must do before he/she can take this course). Some courses have no prerequisites.

Many courses are not offered until spring or until the following school year. If you would like to take one of these courses, check to see if the course has a prerequisite that you should take during the first semester.

Example: John Doe would like to take Spanish IB. It is offered only in the spring semester. In order to take it, a student must have taken Spanish IA first. Therefore, if John wants Spanish IB, he must take Spanish IA during the first semester. (Spanish IA is a prerequisite for Spanish IB).

Read through the course offerings carefully. Select courses which will be of the greatest value for you. Talk to the subject area teacher, your advisor/homeroom teacher, or counselor for additional information.

## AGRICULTURE

<u>Animal Systems</u>	<u>Food Products &amp; Processing Systems</u>	<u>Natural Resources Systems</u>	<u>Plant Systems</u>	<u>Agribusiness Pathway</u>
-Pet & Companion Animals -Animal Science *** -Veterinary Science**	-Food Processing I -Food Processing II -Food Science**	-Wildlife Management -Forestry -Great Outdoors	-Plant Science** -Greenhouse & Crop Management -Landscape Design & Maintenance	-Agribusiness and Personal Finance -Leadership & Group Dynamics

\*Transcribed credit available through NWTC or FVTC (transcription not required).

\*\*Science-equivalent course. Helps satisfy science credit requirement for graduation.

### ~Agribusiness Pathway~

#### **Agribusiness and Personal Finance - 06000**

1 Semester                      0.5 credit                      **Fall or Spring Semester**                      Grades 11-12

This course will focus on all aspects of agribusiness and financial management. Activities, problems, and projects help students to improve their business and employability skills. Throughout the course, students will develop a business plan and look at financial management practices for lifelong financial success. This would meet the Financial Planning Requirement for graduation.

#### **Leadership & Group Dynamics - 06500**

1 Semester                      0.5 credit                      **Fall or Spring Semester**                      Grades 10-12

This class will challenge students to find the leader within in order to make them competitive in today's society. Working independently and as a team member, this course is designed to educate the student on premier leadership, personal growth and career success. Skills in the areas of communication, goal setting, time management, financial planning, and job interviews will be taught. Students will also have an opportunity to explore their personality traits and improve their written communication skills.

### ~Animal Systems Pathway~

#### **Pet/Companion Animal Care - 06000**

1 Semester                      0.5 credit                      **Fall or Spring Semester**                      Grades 9-12

This course will allow you to explore the selection of animals, feeding, reproduction, animal health and behavior of specific animal species. Domestic animals that will be covered include: dogs, cats, rabbits, and additional species to be determined by the class. Animal welfare and animal rights will also be discussed. Hands-on experience with animals will be part of the class.



#### **FVTC Animal Science Fundamentals - 06020 (Science Credit)**

1 Semester                      0.5 credit                      **Spring or Fall Semester**                      Grades 10-12

The major focus of the course is to expose students to the world of agriculture, animal science, and career options. Students participating in the course will have experiences in various animal science concepts with exciting hands-on activities, projects, and problems. Topics to include animal health, animal environments, anatomy and physiology, genetics and reproduction, animal feedstuffs, and job-related safety.

**\*\*Note: This course can be transcribed for credit through FVTC with Junior/Senior standing. Course # 10-006-140**

#### **Veterinary Science - 06050 (Science Credit)**

1 Semester                      0.5 credit                      **Spring or Fall Semester**                      Grades 10-12

#### **Prerequisite: Pet/Companion Animal Care or Animal Science**

Do you want to go into the medical field? Or do you just love animals? This course teaches basic concepts of animal health. As a part of this course, we will be exploring the veterinary practices used in the industry for both small and large animals including safety, terminology, anatomy and physiology, clinical practices, and more. Hands-on experiences with animals will be part of the class.

### ~Food Products & Processing Systems Pathway~

#### **Food Processing I - 06100**

1 Semester                      0.5 credit

**Spring Semester Only**

Grades 9-12

This course will prepare students for careers in raw food processing. Topics for processing include: dairy foods, meat products, fruit and vegetable processing and specialty products. Cutting edge foods will be created along with sustainable locally grown commodities. Other units include: food safety, beneficial and harmful food microorganisms, fermentation, dehydration, packaging, and other processes. Students will use the agriculture food lab.

#### **Food Processing II - 06115**

1 Semester                      0.5 credit

**Fall Semester Only**

Grades 10-12

##### **Prerequisite: Food Processing 1**

This course will continue students' preparation for careers in raw food processing. Topics for processing include: eggs and poultry, beverages, grains, confectionery and chocolate products and specialty products including maple syrup. Other units include food preparations, safety and sanitation, and packaging.

#### **Food Science - 06110 (Science Credit)**

1 Semester                      0.5 credit

**Fall or Spring Semester**

Grades 10-12

##### **Prerequisite: Food Processing 1**

Students will complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the food science and safety industry, allowing students to build content knowledge and technical skills. Students will investigate areas of food science including food safety, food chemistry, and food processing.

### ~Natural Resources Systems Pathway~

#### **Wildlife Management -**

1 Semester                      0.5 credit

**Spring or Fall Semester Only**

Grades 9-12

This course will explore a wide variety of outdoors topics, especially those that have a close association with Oconto County. We will learn about cutting edge environmental topics in the areas of wildlife biology, conservation, aquaculture, upland game, reptiles, waterfowl, and many others. In this course students will explore topics related to managing and utilizing forests, waterways, and other wildlife habitat. Activities may include taxidermy, fish identification, making lures, identifying wildlife animals and tracks, and developing wildlife, forest, and waterway management plans. Guest speakers, labs, and field trips, will be utilized if possible to make important connections with material taught in the classroom.

#### **Forestry - 06210**

1 Semester                      0.5 credit

**Fall Semester Only**

Grades 9-12

Students will explore the forestry industry and conservation practices for the 21<sup>st</sup> century. This course focuses on Wisconsin forestry and includes Wisconsin forest history, identification, dendrochronology, succession, economic impacts, demands in local markets and interactions within the ecosystem. Students will gain practical experience in managing our natural resources. We will utilize the school forest for labs and hands-on experiences.

#### **The Great Outdoors - 06220**

1 Semester                      0.5 credit

**Spring or Fall Semester**

Grades 9-12

This course is designed to provide students with a deeper appreciation for our wildlife and natural resources. Topics will include careers, wildlife species, hunting, and fishing. A focus will be on Wisconsin species. ATV Safety, Snowmobile Safety and Boaters Safety will be taught as part of this course. In order to earn your certificates, a fee of \$10/Certificate will apply (total of \$30 for all 3 certificates). Rod building will be offered, cost of supplies will be paid for by students.

**~Plant Systems Pathways~**

**Plant Science - (Science Credit)**

1 Semester

0.5 credit

**Fall Semester Only**

Grades 9-12

Do you enjoy being outdoors and working with plants? This course will allow you to get a head start in potential careers in the plant and landscape industry. Students will explore the horticulture industry, plant culture, identification, propagation, physiology, selected aspects of the horticulture industry including fruits, vegetables, ornamentals, greenhouse systems, landscape techniques, home gardens, and turf. We will use the Gillett High School Greenhouse as a hands-on learning laboratory.

**Greenhouse & Crop Management - 10130**

**(Offered every other year, next running in 2025-26)**

1 Semester

0.5 credit

**Spring Semester Only**

Grades 10-12

**Prerequisite: Plant Science**

Do you enjoy plants? This course will expose you to the art and science of growing plants, shrubs, trees, flowers, fruits, vegetables and crops. We will cover a wide variety of topics, including greenhouse and nursery operations, soil, fruit and vegetable production, turf/golf course management, weed and pest control and floral design.

**Landscape & Floral Design -**

**(Offered every other year, next running in 2026-27)**

1 Semester

0.5 credit

**Spring Semester Only**

Grades 10-12

**Prerequisite: Plant Science**

Well-designed landscapes raise property values, improve the beauty of the home, and protect the environment. In this class, you'll learn the principles of design on scale model homes, learning to master hand-drawn landscape plans and drafting before moving on to real-world projects. Installation techniques and maintenance of existing landscapes will be taught through hands-on learning opportunities around the school and community. Instruction covers the understanding of design principles and elements, flower/plant identification, the construction of symmetrical floral arrangements with fresh and dried materials and basic corsage construction. Principles of art will be taught through the construction of floral products. Production, processing and care of floral and plant products, business techniques and sales will also be covered.

# ART

## **Intro to Art & Design - 09021**

1 Semester

0.5 credit

**Fall and Spring Semester**

Grades 9-12

Art & Design takes you on an aesthetic journey through various art mediums, 2D as well as 3D. You will explore different avenues of drawing, painting, and printmaking as well as exploring sculpting, paper mache, cardboard, clay and art metals. You will also be learning about the art elements and principles on your journey, as well as theories and practices. You should come with an open mind ready for creative exploration into the different mediums and art styles that make up the art world.

## **Art Appreciation - 09001**

1 Semester

0.5 credit

**Fall Semester**

Grades 9-12

This hands-on, immersive art history course offers students a unique opportunity to explore the world of art through both study and practice. Students will journey through various genres of art, from the classical works of the Renaissance to contemporary movements, learning about iconic artists, their techniques, and the cultural contexts that influenced their masterpieces. Through engaging lessons and discussions, students will deepen their understanding of art history and visual storytelling.

In this class, students will recreate iconic works of art, applying their knowledge and developing their technical skills. These projects will encourage creativity, attention to detail, and a deeper appreciation for the artistic process. By the end of the course, students will have a personal portfolio of recreated works and a richer understanding of the evolution of art across time.

## **Intro to Ceramics - 09004**

1 Semester

0.5 credit

**Spring Semester**

Grades 9-12

Ceramic art is a type of artwork that has been around for thousands of years. It's made by creating clay sculptures and then firing them in an oven to harden the clay so it can become durable. The goal is to develop the ability to think visually and communicate ideas. In your first pottery class, you'll start with hand-building techniques before moving on to the pottery wheel. Hand-building involves shaping clay by hand, using techniques like pinch pots, coil building, and slab construction. You will also learn the importance of creative expression with glazing techniques.

## **3D Art Studio - 09002**

1 Semester

0.5 credit

**Fall Semester**

Grades 9-12

This course is recommended for students who have an interest in three-dimensional design. It provides students with fundamental knowledge and the diverse experience necessary for success in future college art classes or art related career fields. This course encourages students to develop their natural artistic talents by completing a variety of unique and challenging projects in a multitude of 3-D media. Assignments emphasize design, craftsmanship, and problem solving.

## **Graphic Design and Photography - 20326**

1 Semester

0.5 credit

**Fall & Spring Semester**

Grades 9-12

You will learn how to create visual designs using digital illustrations, images, and typography. Visual concepts communicate a message that informs, inspires, or captivates customers. The Art of photography is the process of capturing light to create an image. Some of these elements include, but are not limited to lighting, the rule of thirds, lines, shapes, texture, patterns, and color. All of these things play an important role when it comes to visual storytelling.

## **Yearbook - 07901/07902**

1 Semester or 1 Year

0.5 credit/Semester

**Fall & Spring Semester**

Grades 10-12

Students in Yearbook learn photography, how to design pages, and deal with sales and advertising. They further develop other skills, like interviewing, graphic design and how to utilize the computer program. Students incorporate these skills while creating a yearbook for students and teachers to purchase, all the while meeting deadlines. It is important that members of this class can manage their time well, work independently, communicate with others, have an eye for creativity, and be able to finish by the due dates assigned. *\*Repeatable for credit.*

## **Film Studies and Video Creating/Editing - 50028**

1 Semester

0.5 credit

**Spring Semester**

Grades 9-12

Film studies is an academic discipline that analyzes the art of film and other visual media through historical, theoretical, and critical lenses. It explores the relationship between film, culture, and society, and how film can convey ethical, political, social, and cultural values. We will then connect those conversations to creating and editing video. I will introduce students to creating and editing videos. Students will work with existing video, create their own videos using cameras, iPads and/or smartphones. Students will learn to create professional looking videos by mastering skills such as inserting transitions or special effects, and creating voice-overs. Some videos may end up on the district website or individual teacher websites.

## **BUSINESS**

### **Introduction to Business - 08010**

1 Semester

0.5 credit

**Fall Semester Only**

Grades 9-12

Get a “true” look at business by discovering how a business works. Students will have the opportunity to run their own business by handling day to day transactions in a true-to-life simulation. Students will apply for loans, apply for jobs, hire employees, complete payroll, purchase stocks, conduct meetings, market and advertise their business and interact with each other while running a profitable company.

### **Personal Finance - 08300 (*GRADUATION REQUIREMENT*)**

1 Semester

0.5 credit

**Fall & Spring Semester**

Grades 11- 12

This course is meant to inform you of your various financial responsibilities. This course gives students a consistent framework for thinking through financial choices in order to improve their well-being. Decisions require action. Students who take charge of their finances are better prepared to invest in themselves and cope with the financial ups and downs that life will bring. An activity and project-based approach will be used. Units Covered: Goal setting, checking, taxes, saving, credit, investing, insurance and investing.



# ENGLISH

All students are required to pass four (4.0) credits of Communication Arts in order to graduate.

## **FRESHMAN REQUIRED ENGLISH CLASSES**

### **English 9A & B - 02001/02002**

1 Year	0.5 credit/Semester	<b>Fall &amp; Spring Semester</b>	Grade 9
--------	---------------------	-----------------------------------	---------

English 9 is a year-long course required of all freshmen. Students will read classic texts like *Romeo and Juliet* and *The Odyssey*, and more modern texts using literature circles. Likewise, students will improve their writing skills through various literary analysis essays and other written pieces.

## **SOPHOMORE REQUIRED ENGLISH CLASSES**

### **English 10A & B - 02011/02012**

1 Year	0.5 credit/Semester	<b>Fall &amp; Spring Semester</b>	Grade 10
--------	---------------------	-----------------------------------	----------

English 10 is a year-long course required of all sophomores. Students will read dystopian novels and study classic texts like *Macbeth* and *Lord of the Flies*. In addition, students will improve their writing skills through a variety of different types of essays and written responses.

## **JUNIOR REQUIRED ENGLISH CLASSES**

### **English 11A & B - 02021/02022**

1 Year	0.5 credit/Semester	<b>Fall &amp; Spring Semester</b>	Grade 11
--------	---------------------	-----------------------------------	----------

English 11 continues to build on concepts covered in previous English classes. Literary texts will include: *The Great Gatsby* among others. Writings include responses to readings, informative/explanatory essays, analyses, and fictionalized biography.

## **SENIOR REQUIRED ENGLISH CLASSES**

### **English 12A & B - 02031/02032**

1 Year	0.5 credit/Semester	<b>Fall &amp; Spring Semester</b>	Grade 12
--------	---------------------	-----------------------------------	----------

As in English 11, English 12 includes literary texts from additional narrative texts, writing a memoir, *Frankenstein*, as well as balancing connection and solitude. Additionally, timeless topics connected to the U.S. Constitution and science fiction works may be addressed. Writings continue to include responses to readings, informative/explanatory essays, analyses, and science fiction.

### **OR**

### **NWTC English Composition I - 02101**

1 Semester	0.5 credit/Semester	<b>Fall &amp; Spring Semester</b>	Grade 12
------------	---------------------	-----------------------------------	----------



Learners develop knowledge/skills in planning, organizing, writing, editing. Students will also analyze audience/purpose, use elements of research, format documents using standard guidelines, and develop critical reading skills. **With teacher approval.**

**NWTC Transcription Option: 10-801-136**

### **AND**

### **NWTC Oral/Interpersonal Communication - 02102**

1 Semester	0.5 credit/Semester	<b>Fall &amp; Spring Semester</b>	Grade 11*- 12
------------	---------------------	-----------------------------------	---------------



The communication process, perception and self-concept, language, listening, nonverbal communication, interpersonal relationships, communication in groups and public communication; prepare and deliver an oral presentation. **\*With teacher approval for juniors and seniors.**

## **ELECTIVE ENGLISH CLASSES**

### **Creative Writing**

1 Semester

0.5 credit/Semester

**Fall & Spring Semester**

Grades 9-12

Creative Writing focuses on units of poetry, fiction, and nonfiction. Each class begins with a Journal Writing assignment and then continues on to a writing assignment that will inspire your creativity.

### **Forensics**

1 Semester

0.5 credit/Semester

**Fall Semester Only**

Grades 9-12

Forensics focuses on helping students develop public speaking skills, learning communication skills, and building self-confidence. This course will offer an opportunity to have fun while learning speaking skills for competitions such as Speech, Theater, and Debate. If you choose to participate in Forensics (as a team), we have four competitions a year. This will give you the opportunity to letter in an academic capacity.

## WORLD LANGUAGES

### **Spanish I A & B - 13001/13002**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grades 9-12

Students will develop a basic working knowledge of Spanish. To reinforce the topics being studied, students will actively participate in class using the four basic communication skills of listening, speaking, reading and writing. At the end of this course, students should be able to express what they want to say using the present tense along with course-related vocabulary and expressions. Students will also develop an appreciation for the cultures of Spanish-speaking people around the globe as they explore different customs.

### **Spanish II A & B - 13011/13012**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grades 9-12

**Prerequisite: Successful completion of Spanish IA and IB.**

Students will develop a more extensive knowledge of Spanish, building on the basics they learned in Spanish I. To reinforce the topics being studied, students will actively participate in class using the four basic communication skills of listening, speaking, reading and writing. At the end of this course, students should be able to express what they want to say using the present tenses, the past tenses, - and command forms along with course-related vocabulary and expressions. Students will continue to develop an appreciation for the cultures of Spanish-speaking people around the globe.

### **Spanish III A & B - 13021/13022**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grades 10-12

**Prerequisite: Must have a grade of C or better in Spanish IIA and IIB**

Students will develop a more extensive knowledge of Spanish continuing to build the curricula and skills covered in Spanish I and Spanish II. To reinforce the topics being studied, students will actively participate in class using the four basic communication skills of listening, speaking, reading and writing. At the end of this course, students should be able to express what they want to say using more complex verb tenses, such as the perfect tenses and the imperfect subjunctive along with course-related vocabulary and expressions. They will start exploring Hispanic literature and develop reading comprehension skills as well as cultural topics of interest.

### **Spanish IV A & B - 13031/13032**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grades 11-12

**Prerequisite: Must have a grade of C or better in Spanish IIIA and IIIB**

Students will develop a thorough knowledge of Spanish continuing to build the curricula and skills covered in Spanish I-III. To reinforce the topics being studied, students will actively participate in class using the four basic communication skills of listening, speaking, reading and writing. They will continue to expand their usage of complex verb constructions. They will extensively explore Hispanic literature and continue to develop upper level reading comprehension skills, further broadening their vocabulary.

### **Spanish V A & B - 13041/13042**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grades 12

**Prerequisite: Must have a grade of C or better in Spanish IVA and IVB**

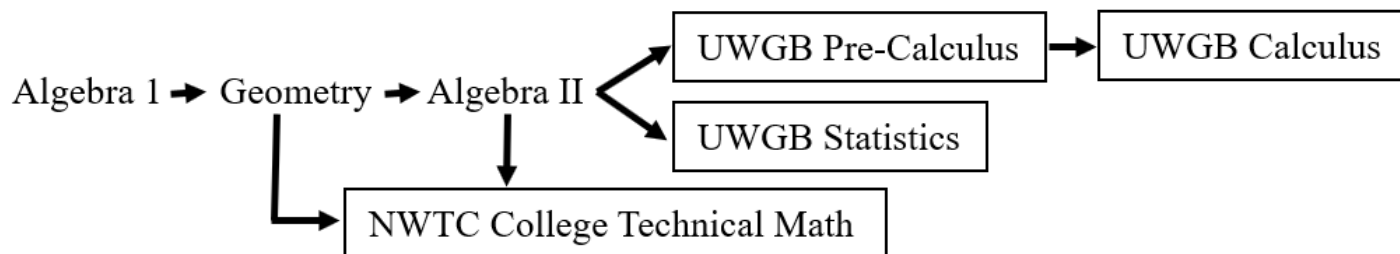
Students will work to build upon the curricula and skills covered in Spanish I-IV. Students will continue to develop their language abilities by exploring more advanced and abstract grammar constructions and vocabulary. They will increase fluency and mastery of verbal communication at an advanced level. Working more independently, students will extensively explore Hispanic culture and continue to develop upper level reading comprehension skills, further broadening their vocabulary.

## **INDEPENDENT STUDY PROGRAMS**

*Independent Study courses are only open to juniors and seniors.* Students may receive credits for independent study in several departments. If you are interested in researching a particular topic which is not offered in our curriculum, you may do it for credit with the guidance of a teacher. The following procedure must be followed by a student wanting Independent Study:

1. Get an independent study proposal form from the school counselor.
2. Contact teacher for approval and revision.
3. Complete the form and have it approved by the school counselor and the principal..
4. All Independent Study classes must be approved before the first day of the semester.

# MATHEMATICS



## **Pre-Algebra A & B - 01001/01002**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grade 9

**Prerequisite:** Teacher recommendation based upon WKCE scores, and placement test scores.

The purpose of this course is to develop fundamental concepts and skills. By the time the student completes this course they should be able to work efficiently with whole numbers, fractions, decimals and percents. Students must have a math department recommendation to be in this class.

## **Algebra I A & B - 01011/01012**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grade 8 with approval, 9 or 10

**Prerequisite:** Teacher approval based standardized test scores, or successful completion of 8th grade Math or Pre-Algebra.

Algebra is actually an extension of Arithmetic. In this case, the ideas of arithmetic are used with letters and symbols in place of numbers and words. Some of the items studied are formulas, graphs, equations, different kinds of numbers, ratio and proportion. Algebra is designed so that it can be used in business, economics, and industry. It is also a foundation of the more complicated mathematical sciences.

## **Geometry A & B - 01021/01022**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grades 9-11

**Prerequisite:** Algebra I A & B, **Corequisite:** Algebra 2 A & B

Geometry is a course in which figures such as lines, angles, triangles, quadrilaterals, circles and other many shaped figures are studied. This course helps the student solve problems which require use of logic and thinking processes. Architects, engineers, navigators, pilots and designers are just some of the people who use geometry.

**\*\*Note:** Students may take *Geometry A & B* and *Algebra II A & B* in the same year with instructor approval.

## **Algebra II A & B - 01031/01032**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grades 9-12

**Prerequisite/Corequisite:** Geometry A & B

After a short review of first year algebra, students learn the skills necessary in future mathematical or science training. Algebra II is focused more on the graphical side of algebra than Algebra I. Some of the topics covered in this course are systems of equations, exponential functions, logarithms, binomial expansion, complex numbers, radicals, and polynomial functions.

**\*\*Note:** Students may take *Geometry A & B* and *Algebra II A & B* in the same year with instructor approval.

**UWGB Pre-Calculus - 01041/01042**

1 Year

0.5 credit/Semester

**Fall & Spring Semester**

Grades 11-12

**Prerequisite: Grade of B or better in Algebra II or Wisconsin Placement Test**

4 UWGB College Credits. This class is college algebra and trigonometry taught with a functional approach. We will cover functions and their graphs, the algebra of functions, polynomial functions, rational functions, exponential and logarithmic functions, trigonometric functions, analytic trigonometry, and conic sections. The class is designed to give students the algebraic tools they need to be successful in college level mathematics or science courses. We will focus on learning the basic concepts of pre-calculus, problem solving, and critical thinking. This is a two-semester class. This course will count as a math credit for high school in addition to the four college credits.

**UWGB Statistics - 01061**

1 Year

0.5 credit/Semester

**Fall & Spring Semester**

Grades 11-12

**Prerequisite: Grade of B or better in Algebra II or Wisconsin Placement Test**

4 UWGB College Credits. Using statistical software, this course covers descriptive statistics, probability, the normal distribution, estimation, hypothesis testing, confidence intervals, chi-square tests for categorical data, correlation, and simple linear regression. This is a two-semester class. This course will count as a math credit for high school in addition to the four college credits.

**UWGB Calculus - 01051/01052**

1 Year

0.5 credit/Semester

**Fall & Spring Semester**

Grade 11-12

**Prerequisite: Grade of C or greater in Pre-Calculus, or Wisconsin placement test**

4 UWGB College Credits. Differential and integral calculus of the elementary functions with associated analytic geometry; transcendental functions; techniques of integration; application. This is a two-semester class. This course will count as a math credit for high school in addition to the four college credits.

**NWTC College Technical Math 1A - 01091/01092**

1 Semester

0.5 credit/semester

**Fall**

Grades 10\*-12

**Prerequisites: 2 high school math credits, teacher approval,**

3 NWTC College Credits. This course provides the opportunity for the learner to develop the knowledge skills process and understanding of linear equations graphing, percent, proportions, measurement systems, computational geometry, and right triangle trigonometry. Emphasis will be on the application of skills to technical problems... This course will count as a math credit for high school in addition to the three college credits.

***\*Open to sophomores who have completed Geometry (with teacher approval). 10th graders may not be able to earn college credits! Check with the teacher.***

***NWTC Transcription Option: # 10-804-113.***

**NWTC College Technical Math 1B - #####**

1 semester

0.5 credit/semester

**Spring Semester**

Grades 10\*-12

**Prerequisites: NWTC College Technical Math 1A, teacher approval.**

2 NWTC College Credits. This course provides the opportunity for the learner to develop the knowledge skills process and understanding of performing operations of polynomials, solving quadratic equations and rational equations, formula rearrangement, solving systems of equations, and oblique triangle trigonometry. Emphasis will be on application of skills to technical problems. This course will count as a math credit for high school in addition to the two college credits.

***\*Open to sophomores who have completed NWTC College Technical Math 1A (with teacher approval). 10th graders may not be able to earn college credits! Check with the teacher.***

***NWTC Transcription Option: # 10-804-114.***

## MUSIC

### **Concert Choir - 11011/11012**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grades 9-12

**Prerequisite: Prior enrollment or teacher approval.**

The Concert Choir is a team of individuals committed to joyful music making. Approximately four REQUIRED concerts are performed each year. We cover a variety of musical styles, from early classical to modern jazz and pop. Students are encouraged to participate in the annual WSMA Solo/Ensemble event held in other conference schools in late March. This event allows each student to prepare a solo, duet, trio or other ensemble at their own achievement level of class C, B or A. Choir or combined band and choir trips are planned every two years to participate in festivals or competitions. No previous experience is necessary but students are expected to work hard.

### **Concert Band - 11001/11002**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grades 9-12

**Prerequisite: Prior enrollment or teacher approval.**

Concert Band is a performance based class open to all students having an interest in making music. Many school-owned instruments are available for student use for those who do not have their own instrument. Attendance for Pep Band, Concerts and Festivals is a requirement. Band also requires short individual or group lessons. Lessons will consist of reviewing class music and also lesson books for more challenging music as appropriate. Jazz Ensemble, Marching Band, Polka Band and various other ensemble groups all come from the band class enrollment. Most rehearsals are during class time. At least three main concerts are held each year – a Holiday/Christmas Concert, an Awards Concert in May, and a Spring WSMA Conference Festival performance. The band also plays for Graduation. The band marches in the Gillett 4<sup>th</sup> of July Parade with some marching preparation before the end of the school year. Band or combined Band and Choir Trips are planned every two years to participate in Festivals or competitions. Also offered for qualified students are summer music camps and graduation scholarships for those pursuing a college music degree. Fundraising activities provide partial funds for these scholarships and reduce student cost for these trips.

### **Rhythm Section 101 -11790**

1 Semester                      0.5 credit                      **Spring Semester** Grades 9-12

Guitar, and drums are the foundation of many music groups, and foundational skills for many musicians. Learn the basics of all of these instruments in one class and set yourself up for musical success for the rest of your life. One quarter of guitar, one quarter of drum set and music production. No prior experience is expected or necessary. All necessary instruments will be provided.

### **Piano Keyboarding**

1 Semester                      0.5 credit/Semester                      **Or Spring Semester**                      Grades 9-12

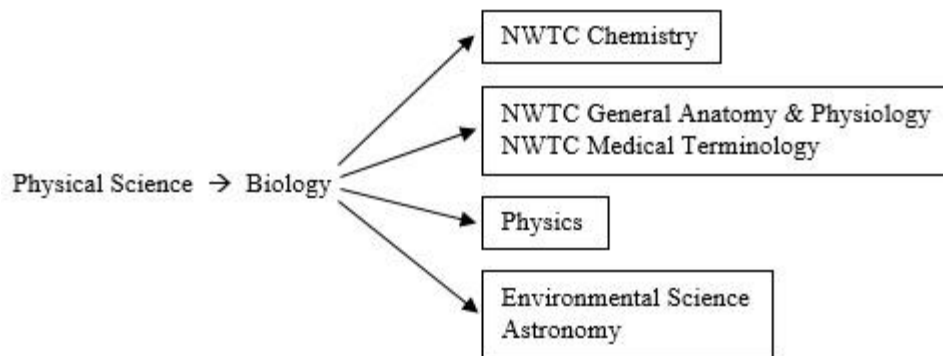
Learn the basics of playing piano including technique, musical terms and concepts, and reading sheet music. Students of all skill levels, including complete beginners, welcome.

### **Advanced Individual Music Seminar (independent study)- 11791**

1 Semester                      0.5 credit/Semester                      **Fall Or Spring Semester**                      Grades 9-12

For students who have already studied music and want a chance to learn more about one specific thing that is not offered in our other music classes. Plans are to be discussed with and approved by the music teachers ahead of time. Possible examples include: music theory, advanced piano, advanced guitar, advanced drum set, foreign language singing, small group chamber ensembles, etc.

## NATURAL SCIENCE



### **Physical Science A & B - 03001/03002**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grade 9

This is a survey course of the physical sciences. One semester will cover introductory chemistry topics. The other semester will cover introductory physics topics. Some examples of topics covered would be The periodic table, chemical reactions, forces and energy, and work and power. This course is also designed to give students an idea if they would like Chemistry or Physics for their 3rd required science credit.

### **Biology A & B - 03011/03012**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grades 9-10

This course is a general study of life and associated processes with correlative environmental concerns. The fundamental unity and contrasting diversity of life forms are emphasized. Appreciation and respect for life and its sustenance are nurtured. Investigatory skills with science methodology are incorporated throughout.

**\*\*Note – this course can be taken at the same time as physical science for some Freshmen based on teacher recommendation.**

### **NWTC General Chemistry A & B - 03021/03022**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grades 10\*-12

**Prerequisites: \*Sophomores with teacher approval.**



The outcome for introductory chemistry is to give students the ability to interpret everyday events in terms of chemical concepts and principles. Stress will be placed on laboratory skills and techniques, and laying groundwork that can be added upon in college. Students will complete a sequential curriculum that includes the nature of matter, atomic theory, intro quantum theory, nomenclature, reactions, stoichiometry, gas and solution chemistry, equilibrium, and introductory acid/base chemistry. Students will receive 4 transcribed credits at NWTC for this course if they maintain a C-grade or better for the entire year. The credits are transferable to most UW schools and are the introductory course for the NWTC nursing program.

**NWTC Transcription Option: #10-806-134**

### **Physics A & B - 03051/03052**

1 Year                      0.5 credit/Semester                      **Fall & Spring Semester**                      Grades 11-12

**Prerequisite: Algebra II**

This course focuses heavily on the mathematical computations of physics. Students will use formulas and equations to explore different areas and begin to understand the connections between science and mathematics, therefore a solid foundation of algebra is



required. Approximately  $\frac{3}{4}$  of the year will focus on the study of mechanics in order to prepare students for their first year of college physics. Topics within mechanics will include units review, motion in one and two-dimensions, forces, gravity, rotation, and momentum. The remainder of the year will focus on concepts such as energy, work, machines, electricity and magnetism – topics more consistent with a second year course. Several labs and projects throughout the year will tie the computations to real-world models and examples.

#### **NWTC General Anatomy and Physiology - 03081/03082**

1 Year

0.5 credit/Semester

**Fall & Spring Semester**

Grades 11-12



**Prerequisite: Biology A and B**

This course examines basic concepts of human anatomy and physiology as they relate to health sciences. Using a body systems approach, the course emphasizes the interrelationships between structure and function at the gross and microscopic levels of organization of the entire human body. It is intended to prepare health care professionals who need to apply basic concepts of whole body anatomy and physiology to informed decision-making and professional communication with colleagues and patients. This course is transcribed credit through NWTC, and students who complete this course will be awarded 4 college credits. This class will transfer to the majority of the UW campuses. Specific credit transfer information can be found on the transfer information website at <http://tis.uwsa.edu/>. **NWTC Course #10-806-177. With teacher approval**

#### **NWTC Medical Terminology - 03090**

1 Semester

0.5 credit

**Spring or Fall Semester**

Grades 11-12



**Prerequisite: Biology A and B**

This class focuses on the component parts of medical terms: prefixes, suffixes, and root words. Students practice formation, analysis and reconstruction of terms. Emphasis will be on spelling, definition and pronunciation. Introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology. This course is transcribed credit through NWTC, and students who complete this course will be awarded 3 college credits. Specific credit transfer information can be found on the transfer information website at <http://tis.uwsa.edu/>.

**NWTC Transcription Option: #10-501-101. With teacher approval**

#### **Anatomy – Structure/Function-03089**

1 Semester 0.5 credits Spring or Fall Semester Grades 9-12

**Prerequisite: None**

This course covers the structure and function of the human body. Units include the skeletal, muscular, nervous, circulatory, respiratory, digestive, and reproductive system. This is an excellent lower level prep course for students considering taking General Anatomy and Physiology, going into the medical/animal sciences, or those with a general interest in the functioning of the human body. Available for Freshmen with teacher approval

#### **Environmental Science - 03040**

1 Semester

0.5 credit

**Fall Semester Only**

Grades 11-12

**Prerequisite: Biology A and B**

Environmental Science is a one semester overview course designed to give students information on the climate and global/local environments with emphasis on the human impact on the planet. Topics will include energy sources, and human interaction with the planet, pollution and stress in the environment, global warming, and models of the future. Focus will be given to labs/projects and documentaries/discussions, to students' developing opinions on environmental issues.

#### **Criminal Forensics A - 03031**

1 Semester each

0.5 credit

**Fall Semester Only**

Grades 10 – 12

**\*\*Class size is limited to 18 students**

**Prerequisite: Biology A and B or teacher approval, Algebra A and B**

This introductory course is designed to teach students the basics of Criminal Forensics – a study of the application of science to the justice system. This course explores the basics of crime scene photography, evidence collection, searches, fingerprints and other basic principles of crime scene investigation. The course includes crime scene scenarios in which students investigate staged crimes. Emphasis on teamwork, investigative skills, report writing and evidence collection skills. Elective class- not science.

**Criminal Forensics B - 03032**

1 Semester

0.5 credit

**Spring Semester Only**

Grades 10-12

**\*\*Class size is limited to 18 students****Prerequisite: Successful completion of Criminal Forensics A**

This course is designed to continue the studies of Criminal Forensics for those students wishing to expand their knowledge in the field of Criminal Justice. Topics include advanced techniques in evidence collection, dental evidence, firearms, anthropology, drugs, gangs, courtroom procedures, etc. The course includes crime scene scenarios in which students investigate staged crimes. Emphasis on teamwork, investigative skills, report writing and evidence collection skills. Elective class- not science.

**Astronomy - 806190**

1 Semester

0.5 credit

**Spring or Fall Semester**

Grades 10-12

**Prerequisite: Junior or Senior standing (Sophomores with teacher approval)**

This course introduces you to the composition and structure of the universe. Astronomy is the scientific study of the contents of the entire Universe. This course will provide the student with a study of the universe and the conditions, properties, and motions of bodies in space. The content includes, but is not limited to, historical astronomy, astronomical instruments, the celestial sphere, the solar system, the earth/moon system, the sun as a star, and stars.

**Earth Science**

1 Semester

0.5 credit

**Spring or Fall Semester**

Grades 10-12

**Prerequisite: Junior or Senior standing (Sophomores with teacher approval)**

High school earth science courses study the Earth's structure, composition, processes, and history. **Topics:**Earth's history, plate tectonics, the rock cycle, the oceans, the atmosphere, weather and climate, and glaciers. **Highlights:** Rock collecting/tumbling, museum/outdoor field trip. **Methods:**Students use scientific methods, including laboratory exercises, small group activities, web-based investigations, class discussions, projects, and research. **Skills:**Students learn to interpret maps, charts, tables, and profiles, use technology to collect, analyze, and report data, and solve problems and make decisions. **Goals:**Students understand the Earth's role in their lives, the interconnectedness of Earth's systems, and the need to care for the planet. **Real-world applications** Earth science research helps society locate resources, anticipate natural disasters, and design more benign procedures. **Careers:** Explore careers in Earth Science like:geologist,hydrologist,science teacher, oceanography, weatherman,etc.

s

**Wings & Flight**

1 Semester

0.5 credit

**Spring or Fall Semester**

Grades 10-12

**Prerequisite: Junior or Senior standing (Sophomores with teacher approval)**

High school aviation course that can cover a range of topics, including flight principles, air traffic control, and aircraft maintenance: **Flight principles:** Learn the science of flight, including how weather affects flight, how flight affects the human body, and flight navigation **Highlights:** Learn to fly a beginner remote controlled airplane, or fly a drone, and build a model airplane. Visit the EAA airventure museum in Oshkosh.**Air traffic control:** Learn about air traffic control systems **Aircraft maintenance:** Learn how to service, fuel, and oil aircraft, as well as how to perform weight and balance calculations **Drones:** Learn about drones and how to fly them **Flight simulators:** Use flight simulators to practice flying **FAA rules and regulations:** Learn about FAA rules and regulations **Aviation career exploration:**Learn how to become a pilot, as well as many in demand aviation jobs, and careers.

## **PHYSICAL AND HEALTH EDUCATION**

### **Health - 05000**

1 Semester                      0.5 credit                      **Fall or Spring Semester**                      Grades 9

This semester course looks at different aspects of today's health. It will focus on mental health, tobacco, alcohol, drugs, diseases and disorders, body systems, nutrition, First Aid and CPR, and sexual education. After this course, students will have a better understanding of their total health. Students should complete this course with the knowledge of what it means to be a healthy American citizen.

\*\*\*Per WI Statute, students are required to successfully pass one semester (0.5 credits) of Health between grades 7-12. If a student passes 0.5 credits of Health in grades 7 or 8, it can be used to satisfy the Health class requirement, meaning that Health will not need to be retaken in high school.

**Physical education** is a required subject for all boys and girls. A total of 1.5 credits in physical education are counted in the 26 credits for graduation. Students need to take one PE 9/10 class, have the choice of either one PE 9/10, Personal Fitness, or Strength & Conditioning class, and one Life Sports class. Students are not expected to achieve the same level of physical effectiveness but each individual is to strive to increase his/her physical proficiency at his/her own level of achievement. This may mean compensating for a handicap or possibly the gaining of coordination through exercise. For others, it could mean becoming an expert in tumbling or sports. If a student participates to the best of his ability in a physical training program, the student will benefit both physically and mentally.

(con't.)

Students in physical education activities learn to work for the common good, respect the personalities of their fellow students and act in a sportsmanlike manner. The physical activities also provide high school students a socially acceptable outlet for tensions and aggressions which sometimes build up under the pressure of living.

A student may be exempt from physical education if he/she has a written statement from a doctor or minister. This statement must be turned into Student Services or the physical education teacher before the student is excused from physical education. If you have questions about the medical excuse policy, contact the principal. Athletic participation is not an excuse for not taking physical education. A student excused from physical education may not participate in athletics for that length of the excuse.

### **Physical Education 9/10 - 05010**

1 Semester                      0.5 credit/Semester                      **Fall or Spring Semester**                      Grades 9-10

**Required for Freshmen and/ or Sophomores** (Sophomores may opt to take Personal Fitness or Strength & Conditioning)

Emphasis in physical education is put on health, hygiene and being active. Through selected activities, students increase their physical proficiency. This course will continue to work on skill development, basic rules for team, individual, and dual games, and weight room and fitness activities.

### **Personal Fitness - 05030**

1 Semester                      0.5 credit/Semester                      Fall or Spring Semester                      Grades 10-12

**Prerequisite: Recommend one semester of 9/10th grade Physical Education**

This class will focus on the five components of physical fitness and one of those components will be addressed each day of the week. Areas will focus on nutrition, weight-lifting, cardiovascular fitness, stretching, yoga/pilates, personal well-being, and stress management. An individualized program will be designed by each member of the class. Students are able to take this course more than once for credit. (½ credit counts towards PE credit, but doesn't replace Life Sports)

\*Students may not take Personal Fitness and Strength and Conditioning the same semester.

### **Life Sports - 05020**

1 Semester                      0.5 credit/Semester                      **Fall or Spring Semester**                      Grades 11 or 12

**Prerequisite: Recommend one semester of 9/10th grade Physical Education and Junior status**

**Required one semester, either Junior or Senior year.**

The Physical Education program for Juniors/Seniors is geared at lifelong sports. There will be a variety of sports offered each semester for students to choose from. Examples of course offerings are: tennis, archery, skiing, badminton, golf, fishing and shuffleboard. (Fee required for golf and bowling trip). Life Sports can be taken two times. Teacher approval is needed to take it more than that two times

**Strength and Conditioning - 05041**

1 Semester

0.5 credit

**Fall Semester or Spring Semester**

Grades 10-12

**Prerequisite: Recommend one semester of 9/10th grade Physical Education**

This course is designed to teach skills of properly lifting weights with the use of free weights and machines. The course is designed to help tone up and strengthen body parts, becoming more aware of how body parts work. Isometric and isotonic movements are stressed. The class is also designed to help the student to develop any weaknesses in their body parts. A ½ credit counts towards PE credit. Can be and is highly encouraged to take multiple times.

Prerequisite: Sophomore standing or approval of a physical education teacher.

\*Students may not take Personal Fitness and Strength and Conditioning the same semester.

## **SOCIAL STUDIES**

Course Offerings: \*Required

Modern US History* Modern World History* U.S. Government and Civics* Ancient World History Macroeconomics	Global Issues Wisconsin History NWTC Sociology NWTC Psychology
---	---

### **Modern United States History (1877-Present) - 04011/04012**

1 Year                      1.0 credit                      Fall & Spring Semester                      Grade 9

#### ***\*\*Required for Freshmen***

A study of United States History from the Civil War and Reconstruction period through industrialization, overseas expansion, world leadership, and domestic problems to include present issues. Analysis of primary source documents will be emphasized.

### **Modern World History - 04121/ 04122**

1 Year                      1.0 credit                      **Fall/Spring Semester**                      Grades 10

#### ***\*\*Required for Sophomores***

World History is a course that develops a greater understanding of the evolution of global history and interactions with different types of human societies. The course highlights the nature of change & continuity, cause & effect, and turning points among major societies. We will then use that information to help us see history through the eyes of those who lived it, and how the past affects societies today. Using time periods and themes throughout the year will help us to make connections between different groups of people and their histories. This class will focus on the Age of Exploration and Colonization, Age of Reason, 19th and 20th Century Revolutions, World War I and World War II, plus the Cold War and Modern World.

### **US Government and Civics - 04254**

1 Semester                      0.5 credit                      **Fall or Spring Semester**                      Grade 11

#### ***\*\*Required for Juniors***

This class will begin with a study for understanding the development and structure of the US Government and Bureaucracy. An analysis of the US Constitution, with a focus on the Bill of Rights, will transition into looking at the rights and powers of the Executive, Legislative and Judicial Branches. Students will have the opportunity to understand their civil rights and civil liberties, while understanding how they are connected to Citizenship.

### **Ancient World History- 04255**

1 Semester                      0.5 credit                      **Fall or Spring Semester**                      Grades 9-12

Take a journey from humanity's earliest beginnings to the Middle Ages. The course explores the development of societies during the Paleolithic and Neolithic eras, the rise of ancient civilizations like Mesopotamia, Egypt, Greece, and Rome, and their lasting contributions. Students will study the spread of religions, the growth of trade networks, and the transition from the ancient world to the medieval period, including the fall of Rome and the rise of feudalism. Emphasizing critical thinking and connections to the modern world, this class brings the past to life.

### **Economics- 111022**

1 Semester                      0.5 credit                      **Fall or Spring Semester**                      Grades 9-12

Economics introduces concepts such as scarcity, supply and demand, market structures, and the role of government in economic systems. The course explores both microeconomics and macroeconomics, connecting these principles to real-world situations and practical decision-making. Students examine topics like personal finance, international trade, economic systems, and globalization, gaining an understanding of how economic forces shape their lives and the world.

**Global Issues - Course 04256**

1 Semester

0.5 credit

**Fall or Spring Semester**

Grades 10-12

Global Issues is a single semester elective that explores the conditions facing the global community. We will explore current issues, the causes, and the potential solutions to those issues. This is not intended to be an exhaustive inquiry. Rather, it serves as an overview of some of the major issues all global citizens should be aware of. The purpose of this course is to broaden and deepen students understanding of the world around them. By the end of this course, students will be able to ask critical questions and see connections in the world's diverse economies and cultures. Students will participate in daily discussions, record learning targets, critically read articles, take notes, answer and create questions, and show evidence of learning on assessments. Students will write extended responses, create Google Slide presentations, and participate in debates. Students will become better readers, writers, thinkers, and speakers, and make a positive impact on the world as a result of this course.

**Wisconsin History - 11118**

1 semester

0.5 credit

**Fall or Spring Semester**

Grades 9-12

**Wisconsin History** is a historical survey of Wisconsin from before it was a state to the present. We will investigate the geography, Native American inhabitants, exploration, immigration, agriculture, industry, economics, social issues, government, war involvement, traditions, tourism, environment, and the arts that have shaped the state and transformed our lives. Rediscover "Meskousing" and Wisconsin history with us.

**Macroeconomics - 111019**

1 semester

0.5 credit

**Fall or Spring Semester**

Grades 11-12

Macroeconomics is the study of national economies as a whole. In this class we will take a look at broad economic ideas that impact national and international markets and groups of people. Emphasis will be put on the relationship between supply and demand while also analyzing productivity within a nation. In addition, an emphasis on reading and creating economic model charts will be used.

**NWTC Intro to Sociology - 04230**

1 Semester

0.5 credit

**Fall Semester Only**

Grades 10-12



The nature and variety of groups; inequality, race, and ethnicity, family, population, social integration and change, collective behavior, politics, economics; religion and education; and the effects of technology. This course is transcribed through NWTC, and students who complete this course will be awarded 3 college credits.

**NWTC Transcription Option: 10-809-196. With teacher approval**

**NWTC Introduction to Psychology - 04210**

1 Semester

0.5 credit

**Spring Semester Only**

Grades 10-12



Survey of theoretical foundations of human behavior such as sensation and perception, motivation, emotions, learning, personality, psychological disorders, therapy, stress and human diversity in personal, social, and vocational settings. This course is transcribed through NWTC, and students who complete this course will be awarded 3 college credits.

**NWTC Transcription Option: 10-809-198. With teacher approval**

# **TECHNOLOGY EDUCATION**

## **~Consumer Tech Ed~**

### **Basic Car Care - 11318**

**1 Semester**

**0.5 credit**

Grades 9-12

**Only female students are eligible for this course. Male students may be allowed with instructor's prior permission.** Want to become more self-reliant or have to rely less on expensive vehicle repair technicians? This course is designed to teach basic vehicle purchasing, maintenance, and repair. Proper tool usage, procedures, and safety will be stressed. Vehicle topics will include tires, filters, electrical, fluids, purchasing, and safety checks.

**NOTE: Safety glasses required at student's expense.**

### **Basic Home Care**

**1 Semester**

**0.5 credit**

Grades 9-12

Students will learn how to purchase a house and read a rental lease agreement. Students will learn about common household maintenance and basic repairs. Students will also learn about terminology used in housing along with the systems that are used to keep a house operating properly.

## **~Wood Manufacturing and Construction~**

### **Basic Woodworking - 07129**

**1 Semester**

**0.5 credit**

**Fall or Spring Semester**

Grades 9-12

The Basic Woodworking course concentrates on the properties and use of wood through small useful projects. Objectives of this course include making accurate measurements, estimating cost materials, use of hand and power tools, and wood finishing. Some projects include making a customized CNC routed frame, a CNC laser project, along with a shelving unit.

### **Tiger Enterprise-Manufacturing Focus - 11305**

**1 Semester**

**0.5 credit/Semester**

**Fall & Spring Semester**

Grades 9-12

Students taking this course will get a feel for what it is like to work for and **own** a company. From the design of the prototype, to the running of an assembly line to complete the production, students will work together as a team to mass produce products for resale. Students taking this course will learn to operate a variety of different machines while working with many different materials and processes. Students have the opportunity to participate in various company positions. Students in this class are encouraged to purchase stock in their company and will receive a profit payout at the end of the semester.

**NOTE: Safety glasses required at student expense.**

### **Cabinet Shop I - 21320**

**1 Semester**

**0.5 credit**

**Course Offered Every Two Years - Next Available: Fall 2026**

**Fall Semester Only**

Grades 9-12

This course is designed to teach the proper cabinet shop procedures and principles necessary to construct a fine cabinet. A major project is required at the conclusion of this class which will incorporate the student's cabinetmaking knowledge and ability. Machine set up, CNC router use, and safety will be taught on a parallel basis with this class.

**NOTE: Safety glasses and cabinet are required at student expense.**

### **Cabinet Shop II - 11315**

**1 Semester**

**0.5 credit**

**Course Offered Every Two Years - Next Available: Spring 2027**

**Spring Semester Only**

Grades 9-12

**Prerequisite: Cabinet Shop I**

To extend the field of cabinet and furniture construction, this course explores advanced techniques and special set-up necessary for students looking toward a career in cabinet or furniture construction. Students in this class will first construct a required furniture project. Students will then design and build a piece of furniture or cabinet of their choice that meets the course requirements.

**NOTE: Safety glasses and project are required at student expense**

**Cabinet Shop III - 21321**

1 Year 0.5 credit/Semester

**Course Offered Every Two Years - Spring 27****Fall & Spring Semester**

Grades 10-12

**Prerequisite: Cabinet Shop 2**

This course is designed for students to reach mastery levels in the cabinet construction field. Students will be required to design, construct, and complete a complex project. Students will demonstrate mastery levels of understanding and skills in the following areas: woodshop safety, design and planning, cabinet joinery and construction, machine setup and maintenance, hardware installation, and wood finishing techniques.

**NOTE: Safety glasses and project are required at student expense.**

**Building Trades I - 11310**

1 Semester, 2 periods/day = 1 credit

**Fall Semester Only**

Grades 11-12

**Prerequisites: Computer Aided Drafting, Drafting I or Industry & Mass Production, AND one additional woodworking course.**

**\*\*Class size is limited to 12 students**

The purpose of this course is to expose the students to the fundamental elements of building construction. Each one of the following areas will be covered in the field of construction: careers, safety, tool and materials, and procedures. The students are required to participate in all areas of study in this course. The students are required to wear safety glasses on the job and equip themselves with a hammer, speed square, tool belt and a steel tape measure. The students will be constructing a building outside and must dress according to the weather. This course is taught about 90 percent on the job and therefore attendance is mandatory for learning the outcome.

**NOTE: Safety glasses and tools required at student's expense.**

**Building Trades II - 21310**

1 Semester, 2 periods/day = 1 credit

**Spring Semester Only**

Grades 11-12

**Prerequisite: Building Trades I**

**\*\*Class size is limited to 12 students**

The purpose of this class is to guide students toward mastery levels of learning in the construction field. This course is designed for the students to obtain mastery levels in the field of construction in the following areas: job site and tool safety, tool operation and setup, careers, procedures for constructing a building, estimating and permitting procedures. The students are required to participate in all areas of study in this course. The students are required to wear safety glasses and equip themselves with a hammer, speed square, tool belt and a steel tape measure. The students will be constructing a building outside and must dress according to the weather. This course is taught about 90 percent on the job and therefore attendance is mandatory for learning outcomes.

**NOTE: Safety glasses and tools required at student's expense.**

**Electricity - 07110****Course Offered Every Two Years - Next Available: Spring 2026**

1 Semester

0.5 credit

**Spring Semester Only**

Grades 10-12

This course serves as an introduction in the field of electricity and electronics. Areas of study will include: basic electrical theory, electrical components, electrical circuits, and residential electrical wiring.

**NOTE: Safety glasses required at student's expense.**

**~Metals Manufacturing and Machining~**

**Intro to Tech Ed- 07333**

1 Semester

0.5 credit

**Fall Semester**

Grades 9-12

**\*\*Class size is limited to 10 students due to computer lab size**

This course will introduce students to the exciting area of Technology Education. Learn to use a laser engraver. Create your own custom metal sign using a cnc plasma cutter. Learn about wind power generation through designing and building your own wind turbine.

**NOTE: This course is only open to students who have taken no more than one Tech Ed course. Safety glasses required at student's expense.**



**General Metals - 11350**

1 Semester

0.5 credit

**Fall Semester Only**

Grades 9-12

**\*\*Class size is limited to 10 students**

General Metals is a course designed for students to gain a basic understanding of the metal-working field. ***This course is a prerequisite if you later wish to take Welding Technology or Metal Fabrication.*** Areas of concentration will be cutting, finishing, drilling, layout, and CNC plasma design and processing. Each area will have required projects.

**NOTE: Safety glasses required at student's expense.**

**NWTC Welding Technology - 21348**

1 Semester

0.5 credits

**Fall Semester Only**

Grades 10-12

**Prerequisite: General Metals****\*\*Class size is limited to 8 students due to welding equipment availability**

Students taking this course will learn the fundamentals of two major types of arc welding: Shielded Metal Arc Welding and Metal Inert Gas. Types of weld joints will also be discussed and completed by students. Discussion and assessment of welding personal protective equipment and safety procedures will be covered in detail.

**NOTE: Safety glasses required at student expense.**

**NWTC Transcription Option: #31-442-348 (Gas Metal Arc Welding 1) AND #31-442-342 (Shielded Arc Metal Welding 1)**

**\*\*Only Juniors or Seniors will receive NWTC credit.**

**Metal Fabrication - 21345**

1 Semester, 1 period/day = 0.5 credits

**Spring Semester Only**

Grades 10-12

**Prerequisites: General Metals, NWTC Welding Technology****\*\*Class size is limited to 6 students due to lab space**

This course is recommended for students looking at a possible career in Metal Fabrication. This course is designed for students to become more familiar with fabrication techniques including planning, welding, drilling, milling, bending, and cutting. Students will be required to design, construct, and **complete a project at their expense**. Students will need to submit a plan and estimate to the instructor and have it approved before fabricating.

**NOTE: Safety glasses required at student expense**

**~Engineering and Design~**

**Introduction to Engineering - 50029/50030**

1 Semester

0.5 credit

**Course Offered Every Two Years - Next Available: Fall 2025****Fall Semester Only**

Grades 9-12

This STEM course is a basic introduction to engineering for all students. Students who complete this course will learn the concepts necessary in order to develop their ideas into solutions that will improve our lives. Exciting hands-on learning activities like data comparison of heart rates, rating consumer products, destructive testing and 3D solid modeling apply math, science, history and English content from other courses in a STEM experience. This course makes science and mathematics more engaging, interesting, concrete, and relevant.

**NWTC Mechanical Drafting (CAD) - 50059 Course Offered Every Two Years - Next Available: Fall 2025**

1 Semester

0.5 credit

**Fall Semester Only**

Grades 11-12



Students will be taught the fundamentals in identifying views and object sketching, then students will learn the basics of AutoCAD software and how this software is used to create, plot and edit drawings. Students will get a basic background in how mechanical parts are designed and drawn for product purposes. Students will learn how to draw three view drawings as well as isometric and assembly drawings.

**NWTC Transcription Option: #10-606-113 \*\*Only Juniors or Seniors will receive NWTC credit.**

**NWTC Architectural Design ( Arch Revit I) - 50062 Course Offered Every Two Years - Next Available: Spring 2027**

1 Semester

0.5 credit

**Spring Semester Only**

Grades 11-12



Architecture is more than just walls around us. The form and function of the spaces we live and work in are at the heart of how any design comes to life. This course will investigate how the structure is designed and built as well as the layout of spaces between the walls. Students will be introduced to a variety of concepts including green building and sustainable design in architecture. Students will apply the concepts introduced to a 'dream home' that they design and model.

**NWTC Transcription Option: #10-614-211 \*\*Only Juniors or Seniors will receive NWTC credit.**

**Vex Robotics - 07320**

1 Semester

0.5 credit

**Spring or Fall Semester**

Grades 9-12

**\*\*Class size is limited to 10 students due to number of robotics kits**

This course is designed to help students learn the fundamentals of robotics and the engineering design process while learning to use design software and the leading classroom robotics solution. The course is broken into six major sections: Safety, Project Management, Planning Your Project, Robotic Lessons, Programming Lessons, and Engineering Activities.

~Mechanics~

**Small Engines 1 - 50009**

1 Semester, 2 periods/day = 1 credit

**Fall Semester Only**

Grades 10-12

**\*\*Class size is limited to 12 students due to number of engine kits**

This course is designed to give students a hands-on as well as a classroom experience with both two-stroke and four-stroke small engines. Students will learn the basic concepts and theories of how gasoline powered engines work and the mechanical skills needed to keep these engines operating. Subjects covered will be: small engine parts and functions, carburetion, the Venturi effect, honing and grinding cylinders. Students will be required to reduce an engine to bare-block form and restore it to running condition. Safety in the shop will be emphasized.

**NOTE: Safety glasses required at student's expense.**

**Small Engines 2 - 50150/50151**

1 Semester, 2 periods/day = 1 credit

**Spring Semester Only**

Grades 10-12

**Prerequisite: Small Engines I**

**\*\*Class size is limited to 10 students due to shop space available for projects**

This course will allow students to utilize the skills learned in Small Engines I to complete repairs on outdoor or power sport equipment of their choice. Because the course is project based, students will be required to keep a portfolio of the project(s) they work on. Projects can include anything from fixing a grass trimmer to more complex power sport repairs.

**NOTE: Safety glasses required at student's expense**