

Milton High School



Program Of Studies 2024-2025

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Principal's Welcome

Dear Students and Parents:

The Program of Studies

The Student Services Department at Milton High School has prepared this booklet to assist students in registering for the 2024-2025 school year. This guide provides information that is important for students to consider when selecting classes for the next school year. The course descriptions provide a brief review of course content. The descriptions are updated yearly by each department. If you need more information about a certain course, you may contact a teacher from that department or a school counselor by utilizing the Milton High School web site at <http://www.milton.k12.wi.us/schools/high/> click on "Scheduling Information".

Graduation Requirements

The current graduation requirements for Milton High School, as set forth by the Board of Education, are included in this document. These are minimum requirements for a high school diploma. There are forms on pages 16-20 that can be used in developing a four-year plan that will meet post-high school needs. It is possible that adjustments in the plan will be made as one proceeds through high school. However, we urge students to draw up a plan that will give them some direction toward the goals they are pursuing.

What Students and Parents need to discuss:

- What are the student's interests?
- What skills does the student possess that may develop into a career path?
- What challenges does the student possess that may impact future goals?
- Will the student attend a university, technical college, an apprenticeship program, the military or prepare for a career directly upon graduation?
- What financial considerations will be part of post-high school decisions?
- What will be the demands on time outside of the classroom (extracurricular activities, after school employment, etc.)? Students and parents should have a conversation about proper life balance and commitments.

Regardless of the student's plans for after graduation, it is recommended that students challenge themselves through appropriately rigorous coursework while achieving academic success and life balance. Keeping options open as future plans change is best achieved through thoughtful planning.

Getting Help

Counselors are available to help students in determining their future career plans and in the selection of courses for next year. We welcome the opportunity to work with students and parents. Feel free to call and speak with a counselor at (608) 868-9560.

Students are divided by last names:

A-G – Michelle Kurilla

H-O – Sarah Gruber

P-Z – Dan Thies

Thank you for taking an active part in your course selection and post high school planning. I look forward to another great year at Milton High School.

Mr. J. Jeremiah Bilhorn
Principal, Milton High School

Nondiscrimination

The School District of Milton is committed to equal educational opportunity for all students in the district.

It is the policy of the School District of Milton, pursuant to s. 113.13, Wis. Stats., and PI9, that no person, on the basis of sex, race, religion, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation or physical, mental, emotional, or learning disability, may be denied admission to any school in this district or be denied participation in, be denied the benefits of, or be discriminated against in any curricular, extracurricular, pupil services, recreational, or other program.

This policy also prohibits discrimination under related federal statutes, including Title VI or the Civil Rights Act of 1964 (race and national origin), Title IX of the education Amendments of 1972 (sex), and Section 504 of the Rehabilitation Act of 1973 (handicap).

It shall be the responsibility of the Superintendent of Schools to examine existing policies and develop new policies where needed to ensure that the School District of Milton does not discriminate pursuant to federal and state law. The Superintendent of Schools shall ensure that an employee is designated annually to receive complaints filed under s 118.13, Wis. Stats., PI9, Wis. Admin. Code, Title IX of the Education Amendments, and Section 504 of the Rehabilitation Act of 1973. That employee shall assure adoption of a complaint procedure to resolve complaints alleging violation of these laws, assure that an evaluation of the district's compliance with s. 118.13, Wis. Stats., is completed every five years under PI9, Wis. Admin. Code and submit Form PI-1197 to the Department of Public Instruction annually.

Graduation Requirements

It is the philosophy of the Board of Education that graduation requirements are established as the minimum expectation for completion of the high school experience. Students are encouraged to exceed the minimum expectations established for graduation from Milton High School.

All candidates for graduation from Milton High School must successfully complete 24 credits. Students are required to complete 12 trimesters of full-time attendance unless an application is made for early graduation.

The following credits are required:

| MHS Graduation Credit Requirements | |
|---|----------------|
| Subject | Credits |
| English | 4 |
| Science | 3 |
| Social Studies | 3 |
| Mathematics | 3 |
| Physical Education | 1.5 |
| Health | .5 |
| Financial Lit & Employability | .5 |
| Electives | 8.5 |

Students shall receive one-half credit for each trimester course successfully completed and one credit for each two trimester course successfully completed.

Students completing pre-approved course work outside of Milton High School will receive one-half credit per trimester course. The grade will not count toward the accumulative grade point average, or honor roll. Please note, all course work done outside of Milton High School must be pre-approved by the Principal.

Students completing Milton High School course work at the middle school will receive one credit per course (Algebra, Spanish I). The credit earned will count toward the 24 credit requirements for graduation from Milton High School. Credits earned at the middle school count only toward elective courses; the grade will not count toward the cumulative grade point average, or honor roll at Milton High School.

Passage of the Wisconsin Civics Examination

As per Wisconsin State statute, students at Milton High School are to pass (65% or higher) the Wisconsin Civics Examination, given in senior social studies classes (Civics or AP Government), as part of the requirements for graduation unless otherwise noted in an Individualized Education Plan. Passage of the examination will be noted on the student's transcript.

Academic and Career Plan and Presentation Requirement

Milton High School students are to present their Academic and Career Plan (ACP) to a review panel as part of the requirements for graduation. Students will receive a scheduled 20 minute time slot in the third trimester of their senior year to present the ACP to a panel consisting of community members and a MHS Staff representative.

The ACP is assembled over a student's school career from grades 6-12 and includes Career activities completed in grades 6-8, lessons done in homeroom in grades 9-11, and a collection of projects from English and Financial Literacy and Employability Skills courses. Information on the ACP presentation, including a checklist of the specific requirements, will be shared with all seniors in the fall of the year of graduation. Completion of the ACP will be noted on the student's transcript.

Modifications to the ACP Presentation may be made if noted in an Individualized Education Plan.

Early Graduation

Students who achieve the requirements for graduation prior to the completion of the 12 trimesters may apply for early graduation. Students interested in graduating early must have Board approval, per board policy.

Students who wish to graduate after their 11 trimesters (March of their senior year) **must submit an application for early graduation prior to October 1st of their senior year.**

Students who wish to graduate after 10 trimesters (November of their senior year) **must meet with MHS administration by May 15th of their Junior year.** Graduation after 10 trimesters requires superintendent approval and must meet the standards in the board policy.

Students who graduate early are still eligible and encouraged to participate in the June Commencement Ceremony.

Early graduation applications can be found in the Student Services Center.

AVID Elective Program

The AVID (Achievement Via Individual Determination) elective is offered at Milton Middle School and Milton High School as an elective course, through an application and selection process. This program is a continuation of the AVID elective offered at Milton Middle School.

Students learn organizational and study skills, work on critical thinking and asking probing questions, receive academic help from peers and college tutors, and participate in enrichment and motivational activities that make college attainable. AVID students will visit several colleges each year to explore the different types of campuses and develop a sense of what they want from their own college experiences.

All AVID electives cover the following: Each week AVID students receive instruction in college entry skills and participate in tutor-led study groups and motivational activities. The course emphasizes higher-order thinking, academic survival skills, notebook organization, Cornell notes, writing process, and goal setting. Students in AVID attend at least one college visit per year. The AVID curriculum is driven by the WICOR method, which stands for Writing, Inquiry, Collaboration, Organization, and Reading.

For more information on the AVID elective, please see a member of Student Services or Administration.

Global Scholars Certificate (GSP) Program





What is it?


The Global Scholars Certificate is a statewide program for motivated students to earn distinction at graduation, by demonstrating Global Competence, a highly in-demand skillset for college, the workforce and the military. The Global Scholarship Certificate is a four-year high school program for students interested in international business, global studies, international relations, and related fields. Upon successful completion of the program, students are awarded the distinction of Global Scholar and will receive:

- * “Global Scholar” on their high school transcript
- * A certificate from the Department of Public Instruction
- * A seal on their diploma
- * A tri-colored cord at graduation

What are the requirements?

Each year, GSP students will complete the following program requirements independently, under the guidance of the GSP advisor, and will build a portfolio that highlights their global competence.

| | Freshman | Sophomore | Junior | Senior |
|---------------------------|---|---|---|---|
| Global Coursework | 1 credit of Spanish <u>and</u> 1 credit of a GSP-eligible course  | 1 credit of Spanish <u>and</u> 1 credit of a GSP-eligible course  | 1 credit of Spanish <u>and</u> 1 credit of a GSP-eligible course  | 1 credit of Spanish <u>and</u> 1 credit of a GSP-eligible course  |
| Cultural Literacy | 2 readings from GSP reading list + reflections on each | 2 readings from GSP reading list + reflections on each | 2 readings from GSP reading list + reflections on each | 2 readings from GSP reading list + reflections on each |
| Global Citizenship | Active participation in school/community events and activities that foster global competence. | | | |
| Global Service | Conceptualize, propose, and implement a service project that impacts the community. | | | |
| Portfolio | Organize a portfolio outlining your global competence over the course of your program. | | | |

 Courses marked with a globe icon in the Program of Studies will count towards the GSP requirements.

Letter Grades / GPA Points

Letter Grades and Grade Point Average (GPA):

- Grade Point Average is calculated based on trimester grades, with each course earning .5 credits
- GPA is computed by dividing the cumulative grade points by the number of eligible credits earned.
- Student grade point averages are computed on a 4.0 scale.
- The following chart shows the Grade Points awarded per Course Letter Grade

| Grade in Trimester Course | Course Percentage | Grade Points |
|---------------------------|-------------------|--------------|
| A+ | 99.5 - 100 | 4.0 |
| A | 91.5 - 99.49 | 4.0 |
| A- | 89.5 - 91.49 | 3.7 |
| B+ | 88.5 - 89.49 | 3.3 |
| B | 81.5 - 88.49 | 3.0 |
| B- | 79.5 - 81.49 | 2.7 |
| C+ | 78.5 - 79.49 | 2.3 |
| C | 71.5 - 78.49 | 2.0 |
| C- | 69.5 - 71.49 | 1.7 |
| D+ | 68.5 - 69.49 | 1.3 |
| D | 61.5 - 68.49 | 1.0 |
| D- | 59.5 - 61.49 | .7 |
| F | Below 59.5 | 0 |

Laude System

Summary and Purpose

- The purpose of the Laude System is to recognize students for the rigor of their academic program as well as their success in that program.
- Students will earn “Laude” points for successful completion of rigorous and “capstone” coursework.
- Milton High School does not report class rank on pupil transcripts but will indicate Grade Point Average and Laude Status obtained upon graduation.

Graduation Honors:

- Students will be recognized at the graduation ceremony with the following honors:
 - Summa Cum Laude (With Highest Honor) - Gold Cord
 - Magna Cum Laude (With Great Honor) - Black Cord
 - Cum Laude (With Honor) - White Cord
- Students must have a minimum 3.0 GPA in order to qualify for Laude recognition.

Laude Score

- A student’s Laude score will be determined by multiplying the following:
 1. A student’s GPA after 11 Trimesters
 2. The number of designated Laude Points earned through 12 trimesters in the course offerings chart.

Score Breaks

- There will be no rounding of Laude Scores
 - 60 = Summa Cum Laude
 - 40 - 59.999 = Magna Cum Laude
 - 20 - 39.999 = Cum Laude
- There may be some students who will need to be considered on a case-by-case basis, such as students who take a semester or year abroad or who graduate early.

Sample Calculations

Senior A: **Magna Cum Laude Recognition**

| | |
|-----------------------------|---|
| ○ AP 2-D Art and Design | 1.0 |
| ○ Honors English 9 | 1.0 |
| ○ Honors English 10 | 1.0 |
| ○ AP Language | 1.0 |
| ○ AP Literature | 1.0 |
| ○ 4 years of Band | 1.0 |
| ○ AP Pre-Calculus | 1.0 |
| ○ Honors Biology | 1.0 |
| ○ Honors Earth Science | 1.0 |
| ○ AP US History | 1.0 |
| ○ GSP Qualifier | 1.0 |
| Total Laude Points = | 11.0 Laude Points x 3.75 (GPA) = 41.25 Laude Score |

Senior B: **Cum Laude Recognition**

| | |
|-----------------------------------|--|
| ○ 4 Credits of Business Ed. | 1.0 |
| ○ 4 Credits of Digital Media/Com. | 1.0 |
| ○ Shop Math 1 | 0.5 |
| ○ Shop Math 2 | 0.5 |
| ○ Youth Apprenticeship | 1.0 |
| ○ AP Computer Science A | 1.0 |
| Total Laude Points = | 5 Laude Points x 4.0 (GPA) = 20 Laude Score |

MHS Laude Points Chart

Color Code Chart:

- Yellow = Summa Cum Laude Honors
- Green = Magna Cum Laude Honors
- Blue = Cum Laude Honors

| Laude Pts. | GPA | | | | | | | | | | |
|-------------------|------------|-------|------|-------|------|-------|------|-------|------|-------|------|
| | 4.0 | 3.9 | 3.8 | 3.7 | 3.6 | 3.5 | 3.4 | 3.3 | 3.2 | 3.1 | 3 |
| 25.5 | 102 | 99.45 | 96.9 | 94.35 | 91.8 | 89.25 | 86.7 | 84.15 | 81.6 | 79.05 | 76.5 |
| 25 | 100 | 97.5 | 95 | 92.5 | 90 | 87.5 | 85 | 82.5 | 80 | 77.5 | 75 |
| 24.5 | 98 | 95.55 | 93.1 | 90.65 | 88.2 | 85.75 | 83.3 | 80.85 | 78.4 | 75.95 | 73.5 |
| 24 | 96 | 93.6 | 91.2 | 88.8 | 86.4 | 84 | 81.6 | 79.2 | 76.8 | 74.4 | 72 |
| 23.5 | 94 | 91.65 | 89.3 | 86.95 | 84.6 | 82.25 | 79.9 | 77.55 | 75.2 | 72.85 | 70.5 |
| 23 | 92 | 89.7 | 87.4 | 85.1 | 82.8 | 80.5 | 78.2 | 75.9 | 73.6 | 71.3 | 69 |
| 22.5 | 90 | 87.75 | 85.5 | 83.25 | 81 | 78.75 | 76.5 | 74.25 | 72 | 69.75 | 67.5 |
| 22 | 88 | 85.8 | 83.6 | 81.4 | 79.2 | 77 | 74.8 | 72.6 | 70.4 | 68.2 | 66 |
| 21.5 | 86 | 83.85 | 81.7 | 79.55 | 77.4 | 75.25 | 73.1 | 70.95 | 68.8 | 66.65 | 64.5 |
| 21 | 84 | 81.9 | 79.8 | 77.7 | 75.6 | 73.5 | 71.4 | 69.3 | 67.2 | 65.1 | 63 |
| 20.5 | 82 | 79.95 | 77.9 | 75.85 | 73.8 | 71.75 | 69.7 | 67.65 | 65.6 | 63.55 | 61.5 |
| 20 | 80 | 78 | 76 | 74 | 72 | 70 | 68 | 66 | 64 | 62 | 60 |
| 19.5 | 78 | 76.05 | 74.1 | 72.15 | 70.2 | 68.25 | 66.3 | 64.35 | 62.4 | 60.45 | 58.5 |
| 19 | 76 | 74.1 | 72.2 | 70.3 | 68.4 | 66.5 | 64.6 | 62.7 | 60.8 | 58.9 | 57 |

| | | | | | | | | | | | |
|------|----|-------|------|-------|------|-------|------|-------|------|-------|------|
| 18.5 | 74 | 72.15 | 70.3 | 68.45 | 66.6 | 64.75 | 62.9 | 61.05 | 59.2 | 57.35 | 55.5 |
| 18 | 72 | 70.2 | 68.4 | 66.6 | 64.8 | 63 | 61.2 | 59.4 | 57.6 | 55.8 | 54 |
| 17.5 | 70 | 68.25 | 66.5 | 64.75 | 63 | 61.25 | 59.5 | 57.75 | 56 | 54.25 | 52.5 |
| 17 | 68 | 66.3 | 64.6 | 62.9 | 61.2 | 59.5 | 57.8 | 56.1 | 54.4 | 52.7 | 51 |
| 16.5 | 66 | 64.35 | 62.7 | 61.05 | 59.4 | 57.75 | 56.1 | 54.45 | 52.8 | 51.15 | 49.5 |
| 16 | 64 | 62.4 | 60.8 | 59.2 | 57.6 | 56 | 54.4 | 52.8 | 51.2 | 49.6 | 48 |
| 15.5 | 62 | 60.45 | 58.9 | 57.35 | 55.8 | 54.25 | 52.7 | 51.15 | 49.6 | 48.05 | 46.5 |
| 15 | 60 | 58.5 | 57 | 55.5 | 54 | 52.5 | 51 | 49.5 | 48 | 46.5 | 45 |
| 14.5 | 58 | 56.55 | 55.1 | 53.65 | 52.2 | 50.75 | 49.3 | 47.85 | 46.4 | 44.95 | 43.5 |
| 14 | 56 | 54.6 | 53.2 | 51.8 | 50.4 | 49 | 47.6 | 46.2 | 44.8 | 43.4 | 42 |
| 13.5 | 54 | 52.65 | 51.3 | 49.95 | 48.6 | 47.25 | 45.9 | 44.55 | 43.2 | 41.85 | 40.5 |
| 13 | 52 | 50.7 | 49.4 | 48.1 | 46.8 | 45.5 | 44.2 | 42.9 | 41.6 | 40.3 | 39 |
| 12.5 | 50 | 48.75 | 47.5 | 46.25 | 45 | 43.75 | 42.5 | 41.25 | 40 | 38.75 | 37.5 |
| 12 | 48 | 46.8 | 45.6 | 44.4 | 43.2 | 42 | 40.8 | 39.6 | 38.4 | 37.2 | 36 |
| 11.5 | 46 | 44.85 | 43.7 | 42.55 | 41.4 | 40.25 | 39.1 | 37.95 | 36.8 | 35.65 | 34.5 |
| 11 | 44 | 42.9 | 41.8 | 40.7 | 39.6 | 38.5 | 37.4 | 36.3 | 35.2 | 34.1 | 33 |
| 10.5 | 42 | 40.95 | 39.9 | 38.85 | 37.8 | 36.75 | 35.7 | 34.65 | 33.6 | 32.55 | 31.5 |
| 10 | 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 |
| 9.5 | 38 | 37.05 | 36.1 | 35.15 | 34.2 | 33.25 | 32.3 | 31.35 | 30.4 | 29.45 | 28.5 |
| 9 | 36 | 35.1 | 34.2 | 33.3 | 32.4 | 31.5 | 30.6 | 29.7 | 28.8 | 27.9 | 27 |
| 8.5 | 34 | 33.15 | 32.3 | 31.45 | 30.6 | 29.75 | 28.9 | 28.05 | 27.2 | 26.35 | 25.5 |
| 8 | 32 | 31.2 | 30.4 | 29.6 | 28.8 | 28 | 27.2 | 26.4 | 25.6 | 24.8 | 24 |
| 7.5 | 30 | 29.25 | 28.5 | 27.75 | 27 | 26.25 | 25.5 | 24.75 | 24 | 23.25 | 22.5 |
| 7 | 28 | 27.3 | 26.6 | 25.9 | 25.2 | 24.5 | 23.8 | 23.1 | 22.4 | 21.7 | 21 |
| 6.5 | 26 | 25.35 | 24.7 | 24.05 | 23.4 | 22.75 | 22.1 | 21.45 | 20.8 | 20.15 | 19.5 |
| 6 | 24 | 23.4 | 22.8 | 22.2 | 21.6 | 21 | 20.4 | 19.8 | 19.2 | 18.6 | 18 |
| 5.5 | 22 | 21.45 | 20.9 | 20.35 | 19.8 | 19.25 | 18.7 | 18.15 | 17.6 | 17.05 | 16.5 |
| 5 | 20 | 19.5 | 19 | 18.5 | 18 | 17.5 | 17 | 16.5 | 16 | 15.5 | 15 |
| 4.5 | 18 | 17.55 | 17.1 | 16.65 | 16.2 | 15.75 | 15.3 | 14.85 | 14.4 | 13.95 | 13.5 |
| 4 | 16 | 15.6 | 15.2 | 14.8 | 14.4 | 14 | 13.6 | 13.2 | 12.8 | 12.4 | 12 |
| 3.5 | 14 | 13.65 | 13.3 | 12.95 | 12.6 | 12.25 | 11.9 | 11.55 | 11.2 | 10.85 | 10.5 |
| 3 | 12 | 11.7 | 11.4 | 11.1 | 10.8 | 10.5 | 10.2 | 9.9 | 9.6 | 9.3 | 9 |
| 2.5 | 10 | 9.75 | 9.5 | 9.25 | 9 | 8.75 | 8.5 | 8.25 | 8 | 7.75 | 7.5 |
| 2 | 8 | 7.8 | 7.6 | 7.4 | 7.2 | 7 | 6.8 | 6.6 | 6.4 | 6.2 | 6 |
| 1.5 | 6 | 5.85 | 5.7 | 5.55 | 5.4 | 5.25 | 5.1 | 4.95 | 4.8 | 4.65 | 4.5 |
| 1 | 4 | 3.9 | 3.8 | 3.7 | 3.6 | 3.5 | 3.4 | 3.3 | 3.2 | 3.1 | 3 |
| 0.5 | 2 | 1.95 | 1.9 | 1.85 | 1.8 | 1.75 | 1.7 | 1.65 | 1.6 | 1.55 | 1.5 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

MHS Laude Courses

Laude Points

- Students will accumulate “Laude Points” over 12 Trimesters (4 years).
- 1.0 points per 1 credit (2 trimesters)
- 0.5 points per .5 credit (1 trimester)

| Department | Course Title |
|---|--|
| Art Education | 4.0 credits of Art (1.0) AP 2-D Art and Design (1.0) Advanced Medium Exploration (1.0) |
| Agriculture Science | 4.0 credits of Agriculture Science (1.0) Large Animal Science (AS) (1.0) Plant Science (AS) (1.0) |
| Business | 4.0 credits of Business Courses (1.0) School- Based Enterprise (0.5) |
| Child and Education Studies | Early Childhood Education (AS) (0.5) Careers with Children (AS)(0.5) |
| Computer Science and Digital Technology | 4.0 credits of Digital Media Technology and Computer Courses (1.0) AP Computer Science A (1.0) AP Computer Science Principles (PLTW) (AS) (1.0) Cybersecurity (PLTW) (1.0) |
| English | Honors English 9 (1.0) Honors English 10 (1.0) AP English Language (1.0) AP English Literature (1.0) |
| Math | Honors Geometry (1.0) Honors Algebra 2 (1.0) Shop Math 1 (AS) (0.5) Shop Math 2 (AS) (0.5) AP Precalculus (1.0) AP Calculus (1.0) AP Statistics (1.0) |
| Music | 4 credits of Band (1.0) 4 credits of Choir (1.0) AP Music Theory (1.0) |
| Science and Health Care Careers | Honors Biology (1.0) Honors Earth Science (1.0) Honors Chemistry (1.0) Honors Physics (1.0) AP Biology (1.0) AP Environmental Science (1.0) AP Chemistry (1.0) Principles of Biomedical Science (PLTW) (1.0) Human Body Systems (PLTW) (1.0) EMT – Basic Provider Course (1.5) Nursing Assistant (CNA) (1.0) |
| Social Studies | Honors Human Geography (0.5) |

| | |
|-----------------------------------|---|
| Social Studies | AP World History (1.0) AP United States History (1.0) AP US Government and Politics (1.0) AP Psychology (1.0) |
| Technology and Engineering | 4.0 credits of Technology Education (1.0) Principles of Engineering (PLTW) (AS) (1.0) Manufacturing and Welding 1 (AS) (0.5)** Welding 2 (AS) (0.5)** Construction Trades Systems Capstone (0.5) Construction Trades Processes Capstone (0.5) Manufacturing and Welding Processes Capstone (0.5) Manufacturing and Welding Operations Capstone (0.5) Automotive and Mechanics Capstone – Performance (0.5) Automotive and Mechanics Capstone – Troubleshooting (0.5) Manufacturing Enterprise **Pending BTC Approval as an Advanced Standing (AS) course |
| World Language | 4.0 credits of a World Language (1.0) Spanish 5 (1.0) GSP qualifier (1.0) |
| Support for Success Tutor Support | Peer Tutor/Mentor for Support For Success (0.5 credit per Trimester) |
| Post-Secondary | Youth Apprenticeship Level 2 Completion (1.0) Early College Credit Program (1.0) Start College Now* *Students are awarded laude points assigned by administration. |
| Admin Decision | Additional Laude points may be awarded for special circumstances per High School Principal approval |

Policy for Schedule Changes

Prior to choosing classes for the following school year, students are encouraged to carefully read course descriptions and seek input and recommendations from parents, teachers, and counselors. After students create their own schedule, they will have access to view it in May. If a student then wishes to make a change in their schedule, the request must be based on a valid educational reason such as: a failed course, lacking a prerequisite, an IEP modification, summer school credit earned, computer error, or an administrative/teacher/counselor directed change. **Any schedule change request must be made before June 15th.**

Milton High School – Course Recommendations

Recommendations for Selection of Courses

Milton High School administration and faculty are committed to providing each student with the individual skills to succeed in an increasingly competitive global environment. Through purposeful course and career planning, students will be better prepared to meet the demands of both college and career expectations.

Prior to selecting classes, students should carefully consider the corresponding course expectations, rigor, and criteria. It is especially important to acknowledge the additional demands of honors level courses. Additional considerations should also be given to your child’s attendance, work ethic, academic performance, career goals, and college readiness.

Students and parents are encouraged to ask questions and seek the input of MHS staff as you complete the course selection process.

Project Lead the Way (PLTW) – Engineering & Health Science

Project Lead the Way is a national pre-engineering and health sciences program that introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college. The courses offered at Milton High School are Introduction to Engineering Design, Principles of Engineering, Computer Science Principles (same course as AP Computer Science Principles), Cybersecurity, Principles of Biomedical Science, and Human Body Systems. Some engineering schools give advanced standing for completion of PLTW coursework. PLTW is helpful to students who are on a course of study within the Science, Technology, Engineering and Mathematics Career Path.

(Project Lead the Way (PLTW) courses are denoted by the Project Lead the Way Logo in this Program of Studies)



Advanced Standing (AS)

Students who earn a grade of “B” or better in any Advanced Standing classes and enroll at Blackhawk Technical College will receive Advanced Standing credit. The awarding of the credit is delayed until students enroll in a technical college program. The following courses may be taken for Advanced Standing:

| <u>MHS Course</u> | <u>Technical College Course(s)</u> | <u>Credits Earned</u> |
|--|---|-----------------------|
| AP Psychology (AS) (L) | BTC: Intro to Psychology 809-198 | 3 |
| Careers with Children (AS) (L) | BTC: ECE Health, Safety, and Nutrition 307-167 | 3 |
| Computer Science Principles (PLTW) (L) | BTC: Microcomputer Fundamentals 631-136 BTC: Version Control I 152-213 BTC: Mobile Application Development 152-223 | 3 |
| Early Childhood Education (AS) (L) | BTC: ECE Child Development 307-179 | 3 |
| English 11 (AS) | BTC: Written Communications 801-195 | 3 |
| Large Animal Science (AS) (L) | BTC: Animal Science/Livestock Management 006-180 | 3 |
| Manufacturing and Welding 1* *Pending BTC Approval | BTC: Welding Shop Safety 442-141 | 1 |
| Manufacturing and Welding Processes Capstone (AS)(L) and Manufacturing and Welding Operations (AS)(L)** *Pending BTC Approval ** Must take both Capstone Courses for BTC AS Credit for 3 credits total | BTC: Welding and Blueprint Reading 1: 442-153 BTC: Gas Metal Arc Welding 1: 442-155 BTC: Gas Metal Arc Welding 2: 442-156 | 1** 1** 1** |
| Plant Science (AS) (L) | BTC: Plant Science/Crop Science 006-160 | 3 |
| Principles of Engineering (PLTW) (AS) (L) | BTC: Fundamentals of DC Circuits I 620-101 BTC: Programming Fundamentals I 620-111 BTC: Mechanics II 620-147 | 3 |
| Shop Math 1 (AS) (L) | BTC: Shop Math 1 804-306 | 2 |
| Shop Math 2 (AS) (L) | BTC: Shop Math 2 804-308 | 2 |
| Welding 2 (AS) (L)* *Pending BTC Approval | BTC: Shop Math 2 804-308 | 2 |

Students that take both the Early Childhood Education and Careers with Children classes are eligible to apply for the Assistant Childcare Teacher (ACCT) Certificate.

Advanced Standing courses are denoted by the Blackhawk Technical College Logo in this Program of Studies and by the letters “AS” on the high school transcript and schedule.



Start College Now and Early College Credit Program

Questions and Answers

What is it?

The Early College Credit Program permits any 9th - 12th grade pupil enrolled in a public school to attend a University of Wisconsin institution for the purpose of taking one or more nonsectarian courses.

The Start College Now program permits any 11th or 12th grade pupil enrolled in a public school to attend a Wisconsin Technical College for the purpose of taking one or more nonsectarian courses.

If the participating pupil takes a course for post-secondary credit **only**, then the pupil (parent/guardian) is responsible for paying the costs.

Districts are not required to pay for a post-secondary course if the district offers a comparable course with approximately an 80% match in course content.

The Start College Now and Early College Credit Program are separate programs and should not be confused with other programs which provide high school students an opportunity to earn college credit, such as College Board's Advanced Placement program (AP), special service contracts with colleges and universities, educational television programs, International Baccalaureate programs, UW-Extension courses, or correspondence courses. Nor should this program be confused with other circumstances where high school students attend courses at WTCS institutions to meet high school graduation requirements through contracts or other special arrangements.

Pupils in the 11th and 12th grades of public school who attend WTCS institutions under s.118.15(1)(b), Wisc. Statutes may not enroll in an institution of higher education under this program.

Which institutions of higher education in Wisconsin are accessible to pupils participating in the program?

All University of Wisconsin System institutions, including the UW-Center System campuses, participate in the program.

All Wisconsin Technical Colleges participate in the program.

All Wisconsin private, nonprofit institutions of higher education who wish to participate must formally join the program by September 1 of each previous academic year.

How does a public school student access the Start College Now/Early College Credit Program?

By March 1 for the fall semester of the post-secondary school and by October 1 for the spring semester of the post-secondary school, pupils must notify the school board of their intention to participate in the program by submitting a DPI Early College Credit Program application with a cover letter.

Pupils must apply to an institution of higher education during the post-secondary school semester prior to enrollment in the institution of higher education. They must meet admission standards and application deadlines established by the institution of higher education for participating in the program. Pupils may be admitted **only** if space is available. Admission under this program should not be construed as admission to the institution of higher education granted after high school graduation.

In the event that space is not available, the pupil is encouraged to list alternate course selections on Form PI 8700 so that the school board is able to determine the acceptability of the alternative course(s).

How does a participating public school student know if selected post-secondary coursework will be awarded high school credit?

Pupils who seek high school credit under the program must apply to their school board for approval.

By the end of the post-secondary school semester in which the pupil applies, the school board must notify the pupil if post-secondary coursework will be approved for high school credit and how much credit will be awarded.

A pupil participating in the program may appeal the school board's decision not to award high school credit to the state superintendent of public instruction within 30 days of the decision.

The state superintendent has final authority to decide if the pupil should be awarded high school credit for post-secondary coursework pursued under this program.

What does the program cost?

School boards pay the costs as specified by the program for a participating pupil if the post-secondary coursework is approved for high school credit, unless the board has determined that the post-secondary course is comparable (80% match) to a course offered and available to the student in the district. Changes in state law allow the school district to seek reimbursement from the parent/guardian or the student (if he or she is an adult) for any class that the student drops or fails under the Start College Now or Early College Credit Program.

When a pupil's request to take a post-secondary course for high school credit is approved, the participating school board must pay the institution of higher education within 30 days after the end of the semester.

Participating pupils pay the costs, as determined by the higher education institution's payment requirement, if enrolled in the program for post-secondary credit **only**. If a pupil receives both high school and post-secondary credit, the school district is required to pay the costs.

The guidelines stated here are subject to change as the program policies are being updated at the state level.

What about the cost of transportation for pupils who participate in the Start College Now/Early College Credit Program?

When participating pupils have school board approval to take a post-secondary course for high school credit, they may apply to the state superintendent for reimbursement of transportation costs if they are unable to pay.

Pupils who participate in the program for post-secondary credit **only** are responsible for their own transportation costs.

What are the responsibilities of participating institutions of higher education?

It is the responsibility of participating institutions of higher education to establish admission criteria for participants in this program.

Participating institutions of higher education must admit eligible students under this program **only** if there is space available.

Each institution of higher education participating in this program must comply with pupil nondiscrimination requirements under s. 118.13(1), Wis. Stats.

Participating institutions of higher education have 30 days after classes begin to formally notify the school board when an admitted student enrolls in a selected course under this program.

Local Colleges and Universities are on the semester system. Now that Milton is in the trimester system, what would my schedule look like if I take a semester college class?

If a student chooses to take a college class 1st semester (September-December) it would have to be scheduled for trimester 1 and 2. (September-Early March) If a student chooses to take a college class for 2nd semester (January-May) it would have to be scheduled for trimester 2 and 3 (Late November-Early June). If a student takes a course in both college semesters, that would result in all three trimesters being used. Ideally, if a student registers for a college class, the hope would be for it start early (7:45am) or later (2:30pm) in the day so that the student only has to miss one MHS class period in any given trimester. Missing more than one class period (having a college class in the middle of the day) over two trimesters could result in falling behind in MHS required/mandatory classes.

Information You Need to Know When Planning Your Education...

Careers of Study/Career Pathways and Career Clusters

Milton High School incorporates the Career Clusters into the Xello website. Courses of Study/Career Pathways are ways for students to group their required courses and electives into a coherent sequence in preparation for college and careers. Utilizing 16 Career Clusters, students can identify pathways from high school to two and four year colleges, graduate school, and/or directly to the workplace. By connecting education to future goals, students are motivated to work harder and enroll in more rigorous courses.

The 16 Career Clusters are:

| | |
|---|---|
| Agriculture, Food and Natural Resources | Architecture and Construction |
| Arts, A/V Technology and Communications | Business Management and Administration |
| Education and Training | Finance |
| Government and Public Administration | Health Science |
| Hospitality and Tourism | Human Services |
| Information Technology | Law, Public Safety, Corrections, and Security |
| Manufacturing | Marketing |
| Science, Technology, Engineering, and Mathematics | Transportation, Distribution and Logistics |

A wide variety of career possibilities can be found within the clusters. Students at Milton High School are fortunate to have the opportunity to take coursework relevant to all 16 Career Clusters. Communicating career and educational goals to your counselor and exploring careers at <https://xello.world/en/> can aid students in choosing relevant and applied coursework designed to meet their individual educational and career goals. The MHS Career Programming web page has links to the resources mentioned above, <https://sites.google.com/milton.k12.wi.us/mhs-school-to-career/mhs-career-programming>

Work-Based Learning

Certified Co-ops

Available in Animal Science, Business, Food Service, and Plant Science, Certified Co-ops integrate work-based learning to achieve a set of standards/skills from the Department of Public Instruction.

Youth Apprenticeship

Available to juniors and seniors, Youth Apprenticeship involves coursework and related work-based learning relevant in many of the Career Pathways. YA students must be in good academic standing, have excellent attendance and have taken a coherent sequence of related coursework. Areas available include: Agriculture, Food & Natural Resources; Architecture & Construction; Arts, A/V Technology & Communication; Finance; Health Science; Hospitality, Lodging & Tourism; Information Technology (IT); Manufacturing; Marketing; Science, Technology, Engineering & Math (STEM); Transportation, Distribution, & Logistics.

MILTON HIGH SCHOOL FOUR YEAR SAMPLE WORKSHEET

| Grade 9 | | | |
|---|---|---|---|
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | Math | Math | Elective |
| Period 2 8:49 am – 9:57 am | Freshman Physical Education | Biology/Honors Biology/Principles of Biomedical Science | Biology/Honors Biology/Principles of Biomedical Science |
| Period 3: Study Flex 10:03 am – 10:49 am | | | |
| Period 4 10:55 am – 12:03 pm | English 9 or Honors English 9 | English 9 or Honors English 9 | Elective |
| 2 nd Lunch 12:03 pm – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | Elective | World Cultures | Health |
| Period 6 1:47 pm – 2:55 pm | Elective | Elective | Elective |
| Grade 10 | | | |
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | Earth Science/ Honors Earth Science or Chemistry/Honors Chemistry (if currently in Alg 2) | Earth Science/ Honors Earth Science or Chemistry/Honors Chemistry (if currently in Alg 2) | Elective |
| Period 2 8:49 am – 9:57 am | Elective | Math | Math |
| Period 3: Study Flex 10:03 am – 10:49 am | | | |
| 1 st Lunch 10:49 am – 11:13 am | | | |
| Period 4 11:19 am – 12:27 pm | Physical Education | Elective | Elective |
| Period 5 12:33 pm – 1:41 pm | English 10 or Honors English 10 | Elective | English 10 or Honors English 10 |
| Period 6 1:47 pm – 2:55 pm | World History or AP World History | World History or AP World History | Elective |
| Grade 11 | | | |
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | English 11 / AP English Language & Composition/ AP Literature & Composition | English 11 / AP English Language & Composition/ AP Literature & Composition | Elective |
| Period 2 8:49 am – 9:57 am | Elective | Elective | Physical Education |
| Period 3: Study Flex 10:03 am – 10:49 am | | | |
| Period 4 10:55 am – 12:03 pm | Financial Literacy & Employability Skills (FLES) | Math | Math |
| 2 nd Lunch 12:03 pm – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | Physical Science OR Chem./Hnr Chem. OR Hnr Physics | Elective | Physical Science OR Chem./Hnr Chem. OR Hnr Physics |
| Period 6 1:47 pm – 2:55 pm | U.S. History or AP U.S. History | U.S. History or AP U.S. History | Elective |
| Grade 12 | | | |
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | Social Studies | Elective | Elective |
| Period 2 8:49 am – 9:57 am | English | Elective | English |
| Period 3: Study Flex 10:03 am – 10:49 am | | | |
| 1 st Lunch 10:49 am – 11:13 am | | | |
| Period 4 11:19 am – 12:27 pm | Elective | Elective | Elective |
| Period 5 12:33 pm – 1:41 pm | Elective | Elective | Elective |
| Period 6 1:47 pm – 2:55 pm | Civics or AP Government | Elective | Elective |

MILTON HIGH SCHOOL FOUR YEAR SAMPLE WORKSHEET WITH MUSIC BLOCK

| Grade 9 | | | |
|---|---|---|---|
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | Math | Math | Elective |
| Period M2-1 8:49 am – 9:34 am | Symphonic Band | Symphonic Band | Symphonic Band |
| Period M2-2 9:37 am – 10:22 am | Mixed Concert Choir | Mixed Concert Choir | Mixed Concert Choir |
| Period 3: Study Flex 10:25 am – 10:49 am | | | |
| Period 4A 10:55 am – 12:03 pm | Freshman Physical Education | Biology/Honors Biology/Principles of Biomedical Science | Biology/Honors Biology/Principles of Biomedical Science |
| 2 nd Lunch 12:03 pm – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | English 9 or Honors English 9 | World Cultures | English 9 or Honors English 9 |
| Period 6 1:47 pm – 2:55 pm | Health | Elective | Elective |
| Grade 10 | | | |
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | English 10 or Honors English 10 | Elective | English 10 or Honors English 10 |
| Period M2-1 8:49 am – 9:34 am | Symphonic Band | Symphonic Band | Symphonic Band |
| Period M2-2 9:37 am – 10:22 am | Mixed Concert Choir | Mixed Concert Choir | Mixed Concert Choir |
| Period 3: Study Flex 10:25 am – 10:49 am | | | |
| Period 4A 10:55 am – 12:03 pm | Elective | Elective | Math |
| 2 nd Lunch 12:03 pm – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | Earth Science/ Honors Earth Science or Chemistry/Honors Chemistry (if currently in Alg 2) | Earth Science/ Honors Earth Science or Chemistry/Honors Chemistry (if currently in Alg 2) | Physical Education |
| Period 6 1:47 pm – 2:55 pm | World History or AP World History | World History or AP World History | Elective |
| Grade 11 | | | |
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | English 11 / AP English Language & Composition/ AP Literature & Composition | English 11 / AP English Language & Composition/ AP Literature & Composition | Elective |
| Period M2-1 8:49 am – 9:34 am | Music Block Physical Education | Music Block Physical Education | Study Hall |
| Period M2-2 9:37 am – 10:22 am | Chamber Choir | Chamber Choir | Chamber Choir |
| Period 3: Study Flex 10:25 am – 10:49 am | | | |
| Period 4A 10:55 am – 12:03 pm | Physical Science OR Chem./Hnr Chem. OR Hnr Physics | Financial Literacy & Employability Skills (FLES) | Physical Science OR Chem./Hnr Chem. OR Hnr Physics |
| 2 nd Lunch 12:03 pm – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | Elective | Math | Math |
| Period 6 1:47 pm – 2:55 pm | U.S. History or AP U.S. History | U.S. History or AP U.S. History | Elective |
| Grade 12 | | | |
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | English | Elective | English |
| Period M2-1 8:49 am – 9:34 am | Wind Ensemble | Wind Ensemble | Wind Ensemble |
| Period M2-2 9:37 am – 10:22 am | Study Hall | Study Hall | Study Hall |
| Period 3: Study Flex 10:22 am – 10:49 am | | | |
| Period 4A 10:55 am – 12:03 pm | Elective | Elective | Elective |
| 2 nd Lunch 12:03 pm – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | Elective | Elective | Elective |
| Period 6 1:47 pm – 2:55 pm | Civics or AP Government | Civics or AP Government | Elective |

The music block allows students to take both Choir and Band during the same period. All students with a music block will have 2nd lunch. Each class runs for three trimesters. You can choose two of the following classes to add to your music block schedule:

- | | |
|--|--|
| A. Mixed Concert Choir OR Chamber Choir | C. Study Hall for one trimester and Music Block Physical Education for two trimesters (0.5 PE credits) |
| B. Women’s Show Choir (Octave Above) OR Mixed Show Choir (Choralation) | D. Symphonic Band OR Wind Ensemble |
| | E. Study Hall |

MILTON HIGH SCHOOL FOUR YEAR PLAN FILLABLE WORKSHEET

| Grade 9 | | | |
|---|---------------|---------------|-----------------|
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | | | |
| Period 2 8:49 am – 9:57 am | | | |
| Period 3: Study Flex 10:03 am – 10:49 am | | | |
| Period 4 10:55 am – 12:03 pm | | | |
| 2 nd Lunch 12:03 pm – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | | | |
| Period 6 1:47 pm – 2:55 pm | | | |
| Grade 10 | | | |
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | | | |
| Period 2 8:49 am – 9:57 am | | | |
| Period 3: Study Flex 10:03 am – 10:49 am | | | |
| 1 st Lunch 10:49 am – 11:13 am | | | |
| Period 4 11:19 am – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | | | |
| Period 6 1:47 pm – 2:55 pm | | | |
| Grade 11 | | | |
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | | | |
| Period 2 8:49 am – 9:57 am | | | |
| Period 3: Study Flex 10:03 am – 10:49 am | | | |
| Period 4 10:55 am – 12:03 pm | | | |
| 2 nd Lunch 12:03 pm – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | | | |
| Period 6 1:47 pm – 2:55 pm | | | |
| Grade 12 | | | |
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | | | |
| Period 2 8:49 am – 9:57 am | | | |
| Period 3: Study Flex 10:03 am – 10:49 am | | | |
| 1 st Lunch 10:49 am – 11:13 am | | | |
| Period 4 11:19 am – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | | | |
| Period 6 1:47 pm – 2:55 pm | | | |

MILTON HIGH SCHOOL FOUR YEAR PLAN FILLABLE WORKSHEET WITH MUSIC BLOCK

| Grade 9 | | | |
|---|---------------|---------------|-----------------|
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | | | |
| Period M2-1 8:49 am – 9:34 am | | | |
| Period M2-2 9:37 am – 10:22 am | | | |
| Period 3: Study Flex 10:25 am – 10:49 am | | | |
| Period 4A 10:55 am – 12:03 pm | | | |
| 2 nd Lunch 12:03 pm – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | | | |
| Period 6 1:47 pm – 2:55 pm | | | |
| Grade 10 | | | |
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | | | |
| Period M2-1 8:49 am – 9:34 am | | | |
| Period M2-2 9:37 am – 10:22 am | | | |
| Period 3: Study Flex 10:25 am – 10:49 am | | | |
| Period 4A 10:55 am – 12:03 pm | | | |
| 2 nd Lunch 12:03 pm – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | | | |
| Period 6 1:47 pm – 2:55 pm | | | |
| Grade 11 | | | |
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | | | |
| Period M2-1 8:49 am – 9:34 am | | | |
| Period M2-2 9:37 am – 10:22 am | | | |
| Period 3: Study Flex 10:25 am – 10:49 am | | | |
| Period 4A 10:55 am – 12:03 pm | | | |
| 2 nd Lunch 12:03 pm – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | | | |
| Period 6 1:47 pm – 2:55 pm | | | |
| Grade 12 | | | |
| Class Hour/Time | Trimester One | Trimester Two | Trimester Three |
| Period 1 7:35 am – 8:43 am | | | |
| Period M2-1 8:49 am – 9:34 am | | | |
| Period M2-2 9:37 am – 10:22 am | | | |
| Period 3: Study Flex 10:22 am – 10:49 am | | | |
| Period 4A 10:55 am – 12:03 pm | | | |
| 2 nd Lunch 12:03 pm – 12:27 pm | | | |
| Period 5 12:33 pm – 1:41 pm | | | |
| Period 6 1:47 pm – 2:55 pm | | | |

The music block allows students to take both Choir and Band during the same period.

All students with a music block will have 2nd lunch. Each class runs for three trimesters.

You can choose two of the following classes to add to your music block schedule:

- | | |
|---|---|
| <ul style="list-style-type: none"> A. Mixed Concert Choir OR Chamber Choir B. Women’s Show Choir (Octave Above) OR Mixed Show Choir (Choralation) | <ul style="list-style-type: none"> C. Study Hall for one trimester and Music Block Physical Education for two trimesters (0.5 PE credits) D. Symphonic Band OR Wind Ensemble E. Study Hall |
|---|---|

MHS Required Courses

Students in incoming grades 10 and 11 do have the opportunity to take P.E. during the 6-week summer course. Attendance requirements do apply to earn credit.

| Grade 9 | |
|--|-------------|
| Course Name: | Credits: |
| English 9/Honors English 9 | 1.0 Credit |
| Math | 1.0 Credit |
| Biology/Honors Biology/ Principles of Biomedical Science | 1.0 Credit |
| World Cultures | 0.5 Credit |
| Freshman Physical Education | 0.5 Credit |
| Health | 0.5 Credit |
| Electives | 3.0 Credits |

Total: 7.5 Credits

| Grade 10 | |
|---|-------------|
| Course Name: | Credits: |
| English 10 / Honors English 10 | 1.0 Credit |
| Math | 1.0 Credit |
| World History / AP World History | 1.0 Credit |
| Earth Science / Honors Earth Science <u>or</u> Chemistry/Honors Chemistry (if student is enrolled in Algebra 2) | 1.0 Credit |
| Physical Education | 0.5 Credit |
| Electives | 3.0 Credits |

Total: 7.5 Credits

| Grade 11 | |
|---|-------------|
| Course Name: | Credits: |
| English 11 / AP English Language & Composition/ AP English Literature & Composition | 1.0 Credit |
| Math | 1.0 Credit |
| U.S. History / AP U.S. History | 1.0 Credit |
| Physical Science / Chemistry/ Honors Chemistry/ Honors Physics | 1.0 Credit |
| Physical Education | 0.5 Credit |
| Financial Literacy & Employability Skills | 0.5 Credit |
| Electives | 2.5 Credits |

Total: 7.5 Credits

| Grade 12 | |
|---|-------------|
| Course Name: | Credits: |
| English Elective | 1.0 Credit |
| Civics and one Social Studies elective (or AP Government) | 1.0 Credit |
| Electives | 5.5 Credits |

Total: 7.5 Credits

*AP Government will meet Civics requirement

Course Offerings Table

| | | | | |
|--------------|--------------|---|------------------------|----------------|
| E = Elective | R = Required | E/R = Elective choice but fulfills graduation requirement | AS = Advanced Standing | L=Laude Course |
|--------------|--------------|---|------------------------|----------------|

| AGRICULTURE (Pages 28-30 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|--|----------|-------------|----------|--------------------|
| Exploring Animals and Plants | E | 0.5 | 9 | |
| Exploring Food and Wisconsin Agriculture | E | 0.5 | 9 | |
| Vet Science 1 | E | 0.5 | 10-12 | |
| Vet Science 2 | E | 0.5 | 10-12 | Vet Science 1 |
| Plant Science (AS) (L) | E | 1 | 10-12 | |
| Wildlife Ecology – Fish and Birds | E | 0.5 | 10-12 | |
| Wildlife Ecology - Mammals | E | 0.5 | 10-12 | |
| Large Animal Science (AS) (L) | E | 1 | 11-12 | |
| Ag Independent Study | E | 0.5 per tri | 11 or 12 | Instructor Consent |
| Ag Business Management & Leadership | E | 1 | 12 | |

| ART (Pages 31-32 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|---|----------|---------|--------|---|
| Art Foundations | E | 0.5 | 9-12 | \$15 fee |
| Drawing | E | 0.5 | 9-12 | Art Foundations, \$15 fee |
| Painting | E | 0.5 | 9-12 | Art Foundations, \$15 fee |
| Ceramics | E | 0.5 | 9-12 | Art Foundations, \$15 fee |
| AP 2-D Art and Design (L) | E | 1 | 11-12 | Drawing and Painting, \$25 fee |
| Advanced Medium Exploration (L) | E | 1 | 11-12 | Two of the following: Drawing, Painting or Ceramics, \$25 fee |
| AP Study Hall | E | 0 | 11-12 | Enrolled in AP 2-D Art and Design |

| AUTOMOTIVE/ENGINES (Pages 33-34 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|---|----------|---------|--------|---|
| Home and Auto Maintenance | E | 0.5 | 9-12 | Fees may be required to purchase materials for projects |
| Small Engines | E | 0.5 | 9-12 | Fees may be required to purchase materials for projects |
| Multi Cylinder Engines | E | 0.5 | 9-12 | Small Engines. Fees may be required to purchase materials for projects |
| Troubleshooting and Diagnostics | E | 0.5 | 9-12 | Small Engines. Fees may be required to purchase materials for projects |
| Automotive Autobody and Wiring | E | 0.5 | 9-12 | Small Engines. Fees may be required to purchase materials for projects |
| Automotive and Mechanics Capstone – Performance (L) | E | 0.5 | 11-12 | Small Engines and two of the following: Multi Cylinder Engines, Troubleshooting and Diagnostics, or Automotive Autobody and Wiring Fees may be required to purchase materials for projects |
| Automotive and Mechanics Capstone – Troubleshooting (L) | E | 0.5 | 11-12 | Small Engines and two of the following: Multi Cylinder Engines, Troubleshooting and Diagnostics, or Automotive Autobody and Wiring Fees may be required to purchase materials for projects |

| BUSINESS & MARKETING (Pages 35-37 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|---|----------|---------|--------|--|
| Introduction to Business and Marketing | E | 0.5 | 9-12 | |
| Workplace Applications (formerly Computers for the Workplace) | E | 0.5 | 9-12 | |
| Entrepreneurship | E | 0.5 | 9-12 | Introduction to Business and Marketing |
| Marketing (formerly Principles of Marketing) | E | 0.5 | 9-12 | Introduction to Business and Marketing |

| BUSINESS & MARKETING (Pages 35-37 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|--|-----------------|----------------|---------------|---|
| Social Media Design | E | 0.5 | 10-12 | |
| Sports and Entertainment Management | E | 0.5 | 10-12 | Introduction to Business and Marketing Suggested Prereq: Marketing |
| Accounting 1 (formerly Introduction to Accounting) | E | 0.5 | 10-12 | Suggested Prereq: Introduction to Business and Workplace Applications |
| Accounting 2 (formerly Intermediate Accounting) | E | 0.5 | 10-12 | At least a C in Accounting 1 Suggested Prereq: Workplace Applications |
| Financial Lit & Employability Skills (FLES) | R | 0.5 | 11 | |
| Retail Design (School Store) (Fall) | E | 0.5 | 11-12 | Introduction to Business and Marketing and one other business classes (not including Financial Literacy) |
| Retail Communications (School Store) (Winter) | E | 0.5 | 11-12 | Introduction to Business and Marketing and one other business class (not including Financial Literacy) |
| School-Based Enterprise (Spring) (L) | E | 0.5 | 11-12 | Introduction to Business and Marketing and two other business classes (not including Financial Literacy) Repeatable for credit |

| CHILD & EDUCATION STUDIES (Page 38 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|--|-----------------|----------------|---------------|--|
| Careers with Children (AS) (L) | E | 0.5 | 10-12 | |
| Early Childhood Education (AS) (L) | E | 0.5 | 11-12 | Careers with Children Transportation is responsibility of the student |

| COMPUTER SCIENCE (Pages 39-40 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|--|-----------------|----------------|---------------|---|
| Introduction to Computer Science | E | 0.5 | 9-12 | |
| IT Fundamentals | E | 0.5 | 9-12 | |
| Computer Programing | E | 0.5 | 9-12 | Introduction to Computer Science <u>or</u> Algebra 1 |
| AP Computer Science A (L) | E | 1 | 10-12 | Introduction to Computer Science <u>or</u> Computer Programming <u>or</u> Geometry Offered in 2024-2025 |
| AP Computer Science Principles (PLTW) (AS) (L) (same as PLTW Computer Science Principles) | E | 1 | 10-12 | Introduction to Computer Science <u>or</u> Computer Programming <u>or</u> Geometry Offered in 2025-2026 |
| Cybersecurity (PLTW) (L) | E | 1 | 10-12 | Introduction to Computer Science, Computer Programming <u>or</u> Geometry Offered in 2024-2025 |
| AP Study Hall | E | 0 | 10-12 | Enrolled in AP Computer Science A or AP Computer Science Principles |

| CONSTRUCTION TRADES (Pages 41-42 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|--|-----------------|----------------|---------------|---|
| Home and Auto Maintenance | E | 0.5 | 9-12 | Fees may be required to purchase materials for projects |
| Construction 1 | E | 0.5 | 9-12 | Fees may be required to purchase materials for projects |
| Woods 1: Introduction to Woodworking | E | 0.5 | 9-12 | Fees may be required to purchase materials for projects |
| Woods 2: Advanced Woodworking | E | 0.5 | 9-12 | Woods 1: Introduction to Woodworking Fees may be required to purchase materials for projects |

| CONSTRUCTION TRADES (Pages 41-42 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|---|-----------------|----------------|---------------|--|
| Construction Trades – Interior | E | 0.5 | 9-12 | Construction 1 Fees may be required to purchase materials for projects |
| Construction Trades – Exterior | E | 0.5 | 10-12 | Construction 1 Fees may be required to purchase materials for projects |
| Construction Trades Systems Capstone (L) | E | 0.5 | 11-12 | Construction Trades – Exterior <u>or</u> Construction Trades – Interior Fees may be required to purchase materials for projects |
| Construction Trades Processes Capstone (L) Offered in 2025-2026 | E | 0.5 | 11-12 | Construction Trades – Exterior <u>or</u> Construction Trades – Interior Fees may be required to purchase materials for projects |

| DIGITAL MEDIA AND TECHNOLOGY (Pages 43-44 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|---|-----------------|----------------|---------------|---------------------------|
| Digital Media 1 | E | 0.5 | 9-12 | |
| Digital Media 2 | E | 0.5 | 9-12 | Digital Media 1 |
| Media Production | E | 0.5 | 9-12 | Digital Media 1 and 2 |
| Game Design 1 | E | 0.5 | 10-12 | Digital Media 1 and 2 |
| Video Production 1 | E | 0.5 | 10-12 | Digital Media 1 and 2 |
| Video Production 2 | E | 0.5 | 10-12 | Video Production 1 |
| Web Design | E | 0.5 | 10-12 | Digital Media 1 and 2 |

| ENGINEERING AND DESIGN (Pages 45-46 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|--|-----------------|----------------|---------------|---|
| Introduction to Computer Aided Design (CAD) | E | 0.5 | 9-12 | Fees may be required to purchase materials for projects |
| Architectural Design | E | 0.5 | 9-12 | Fees may be required to purchase materials for projects |
| Fab Lab Basics | E | 0.5 | 9-12 | Fees may be required to purchase materials for projects |
| Computer Aided Design (CAD) & Prototyping | E | 0.5 | 10-12 | Introduction to Computer Aided Design Fees may be required to purchase materials for projects |
| AP Computer Science A (L) | E | 1 | 10-12 | Introduction to Computer Science <u>or</u> Computer Programming <u>or</u> Geometry Offered in 2024-2025 |
| AP Computer Science Principles (PLTW) (AS) (L) (same as PLTW Computer Science Principles) | E | 1 | 10-12 | Introduction to Computer Science <u>or</u> Computer Programming <u>or</u> Geometry Offered in 2025-2026 |
| Principles of Engineering (PLTW) (AS) (L) | E | 1 | 10-12 | Offered in 2025-2026 |
| Manufacturing Enterprise (L) | E | 0.5 | 11-12 | Introduction to Business and Marketing <u>or</u> Woods I <u>or</u> Introduction to Computer Aided Design Fees may be required to purchase materials for projects |

| ENGLISH (Pages 47-50 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|---|-----------------|----------------|---------------|---------------------------|
| English 9 or Honors English 9 (L) | R | 1 | 9 | |
| English 10 or Honors English 10 (L) | R | 1 | 10 | |
| English 11 (AS) | R | 1 | 11 | |

| ENGLISH (Pages 47-50 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|---|-----------------|----------------|---------------|---|
| AP English Language & Composition (L) | E/R | 1 | 11-12 | Honors English 10 <u>or</u> B or higher in last English Course recommended |
| AP English Literature & Composition (L) | E/R | 1 | 11-12 | Honors English 10 recommended for Juniors |
| World Literature | E/R | 0.5 | 12 | |
| Speech | E/R | 0.5 | 12 | |
| British Literature | E/R | 0.5 | 12 | |
| Contemporary Fiction Literature | E/R | 0.5 | 12 | |
| Critical Perspectives in Mass Communication | E/R | 0.5 | 12 | |
| Journalistic Publications | E or E/R | 0.5 per tri | 10-12 | |
| AP Study Hall | E | 0 | 11-12 | Enrolled in: AP English Language and Composition or AP English Literature and Composition |

| FAMILY & CONSUMER EDUCATION (Pages 51 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|---|-----------------|----------------|---------------|---|
| Foods for Life | E | 0.5 | 10-12 | \$25 fee |
| Food Science | E | 0.5 | 10-12 | \$25 fee |
| Culinary Arts | E | 0.5 | 10-12 | \$25 fee |
| Fashion Styling | E | 0.5 | 9-12 | Students will have to pay for project materials |
| Housing Design | E | 0.5 | 9-12 | |

| HEALTH CARE CAREERS (Page 52-53 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|---|-----------------|----------------|---------------|--|
| Principles of Biomedical Science (PLTW) (L) | E/R | 1 | 9-12 | Strong Science skills recommended |
| Human Body Systems (PLTW) (L) | E | 1 | 10-12 | Principles of Biomedical Science (Grade of C- or better) |
| Spanish in the Medical Field | E | 0.5 | 11-12 | C- or better in 2 nd trimester of Spanish 2 |
| Structural Anatomy & Physiology of the Human Body | E | 0.5 | 11-12 | Biology or Principles of Biomedical Science (Grade of C or better) |
| Cellular Anatomy and Physiology of the Human Body | E | 0.5 | 11-12 | Biology or Principles of Biomedical Science (Grade of C or better) |
| Nursing Assistant (CNA) (L) | E | 1 | 11-12 | Completed Program Application returned <u>before</u> due date |
| EMT – Basic Provider Course (L) | E | 1.5 | 11-12 | Completed Program Application returned <u>before</u> due date. This is a full year course. Must be committed to completing course and earning the certification. |

| MANUFACTURING AND WELDING (Page 54-55 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|--|-----------------|----------------|---------------|--|
| Manufacturing and Welding 1 (AS)*(L)* *Pending BTC Approval as an Advanced Standing Course | E | 0.5 | 9-12 | Fees may be required to purchase materials for projects |
| Welding 2 (AS)*(L)* *Pending BTC Approval as an Advanced Standing Course | E | 0.5 | 9-12 | Manufacturing and Welding 1 Fees may be required to purchase materials for projects |
| Manufacturing Technology | E | 0.5 | 9-12 | Manufacturing and Welding 1. Fees may be required to purchase materials for projects |
| Manufacturing Systems | E | 0.5 | 9-12 | Manufacturing and Welding 1. Fees may be required to purchase materials for projects |
| Manufacturing and Welding Processes Capstone (AS)* (L) *Pending BTC Approval as an Advanced Standing Course | E | 0.5 | 11-12 | Welding 2 and Manufacturing Technology or Manufacturing Systems Fees may be required to purchase materials for projects |

| MANUFACTURING AND WELDING (Page 54-55 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|--|-----------------|----------------|---------------|---|
| Manufacturing and Welding Operations Capstone (AS)* (L) *Pending BTC Approval as an Advanced Standing Course | E | 0.5 | 11-12 | Welding 2 <u>and</u> Manufacturing Technology or Manufacturing Systems Fees may be required to purchase materials for projects |

| MATHEMATICS (Pages 56-59 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|---|-----------------|----------------|---------------|--|
| Algebra 1 | R | 1 | 9 | Passing the first trimester of Algebra 1 is a prerequisite for the second trimester |
| Geometry or Honors Geometry (L) | R | 1 | 9-10 | Algebra 1 Passing first trimester of Geometry is a prerequisite for the second trimester. |
| Shop Math 1 (AS) (L) | E/R | 0.5 | 11-12 | Algebra 1 <u>and</u> Geometry See pg. 53 for NCAA eligible information |
| Shop Math 2 (AS) (L) | E/R | 0.5 | 11-12 | Shop Math 1 See pg. 54 for NCAA eligible information |
| Intermediate Algebra | E/R | 1 | 11-12 | Algebra 1 <u>and</u> Geometry Passing first trimester of Intermediate Algebra is a prerequisite for the second trimester. |
| Algebra 2 or Honors Algebra 2 (L) | E/R | 1 | 10-12 | Algebra 1 <u>and</u> Geometry Algebra 2 is a prerequisite for college admission to the UW system schools |
| AP Precalculus (L) (formerly Pre-Calculus) | E/R | 1 | 10-12 | Algebra 2 (Grade of B or higher), or Honors Algebra 2 |
| College Algebra | E/R | 0.5 | 11-12 | Algebra 2 |
| Trigonometry | E/R | 0.5 | 11-12 | Algebra 2 |
| Probability & Statistics | E/R | 0.5 | 11-12 | Algebra 2 |
| AP Calculus (L) | E/R | 1 | 12 | Precalculus (Grade of B or higher) |
| AP Statistics (L) | E/R | 1 | 11-12 | Algebra 2 (Grade of B or higher), or Honors Algebra 2 |
| AP Study Hall | E | 0 | 10-12 | Enrolled in: Ap Precalculus, AP Calculus or AP Statistics |

| MUSIC (Pages 60-61 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|---|-----------------|----------------|---------------|--|
| Chamber Ensemble | E | 0.5 | 9-12 | Non-Audition, Instructor Consent |
| Symphonic Band | E | 1 | 9-10 | Audition OR Instructor Consent |
| Wind Ensemble | E | 1 | 11-12 | Audition OR Instructor Consent |
| Women's Show Choir (Octave Above) | E | 1 | 9-12 | Audition |
| Mixed Concert Choir | E | 1 | 9-12 | |
| Mixed Show Choir (Choralation) | E | 1 | 9-12 | Audition |
| Chamber Choir | E | 1 | 9-12 | Audition |
| Music Theory 1 | E | 0.5 | 9-12 | |
| Music Theory 2 | E | 0.5 | 9-12 | |
| AP Music Theory (L) | E | 1 | 10-12 | Music Theory 1 & 2 or Instructor Consent |
| AP Study Hall | E | 0 | 10-12 | Enrolled in: AP Music Theory |

| PHYSICAL EDUCATION & HEALTH (Pages 62-63 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|--|-----------------|----------------|---------------|---------------------------|
| Health Education | R | 0.5 | 9 | |
| Freshman Physical Education | E/R | 0.5 | 9 | |
| Athletic Performance | E/R | 0.5 | 9-12 | |
| Lifelong Activities and Fitness | E/R | 0.5 | 10-12 | |
| Competitive Sports | E/R | 0.5 | 10-12 | |
| Modified Physical Education | See desc. | 0.5 | 9-11 | Department Selection Only |

| PHYSICAL EDUCATION & HEALTH (Pages 62-63 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|--|-----------------|----------------|-------------------|--|
| Music Block Physical Education | E/R | 0.5 | 9-12 | Students must be taking a Music class with the Music block |
| Summer School Physical Education | E/R | 0.5 | Incoming 10-11 | Students must sign up through Summer School Registration |

| SCIENCE (Pages 64-67 descriptions) | Elec/Req | Credits | Grades | Prerequisites/ Fees |
|---|-----------------|----------------|---------------|---|
| Biology or Honors Biology (L) | E/R | 1 | 9 | |
| Principles of Biomedical Science (PLTW) (L) | E/R | 1 | 9-12 | Strong Science skills recommended |
| Earth Science or Honors Earth Science (L) | E/R or R | 1 | 9-12 | |
| Chemistry or Honors Chemistry (L) | E/R or E | 1 | 10-12 | Completion or current enrollment in Algebra II |
| Honors Physics (L) | E/R or E | 1 | 11-12 | Completion or current enrollment in Algebra II |
| Physical Science | E/R | 1 | 11 | |
| Astronomy | E | 0.5 | 9-12 | |
| Human Body Systems (PLTW) (L) | E | 1 | 10-12 | Principles of Biomedical Science (Grade of C- or better) |
| Structural Anatomy & Physiology of the Human Body | E | 0.5 | 11-12 | Biology or Principles of Biomedical Science (Grade of C or better) |
| Cellular Anatomy and Physiology of the Human Body | E | 0.5 | 11-12 | Biology or Principles of Biomedical Science (Grade of C or better) |
| AP Biology (L) | E | 1 | 10-12 | Biology/Honors Biology or Principles of Biomedical Science |
| AP Environmental Science (L) | E | 1 | 10-12 | Recommended grade of B or higher in Biology or Principles of Biomedical Science <u>or</u> 2 science credits |
| AP Chemistry (L) | E | 1 | 11-12 | Chemistry recommended grade of B or better <u>and</u> Algebra II recommended grade of C or better |
| AP Study Hall | E | 0 | 10-12 | Enrolled in AP Biology, AP Environmental Science or AP Chemistry |

| SOCIAL STUDIES (Pages 68-71 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|--|-----------------|----------------|---------------|--|
| World Cultures | R | 0.5 | 9 | |
| Honors Human Geography (L) | E | 0.5 | 9 | World Cultures |
| World History | R | 1 | 10 | |
| AP World History (L) | E/R | 1 | 10 | Honors Human Geography recommended |
| History of Rock County and Southern Wisconsin | E/R | 0.5 | 10-12 | |
| U.S. History | R | 1 | 11 | |
| AP U.S. History (L) | E/R | 1 | 11 | AP World History <u>or</u> B in World History recommended |
| Comparative Religions, Culture, and Philosophy | E/R | 0.5 | 11-12 | |
| History of Warfare: Conflicts in the World | E/R | 0.5 | 11-12 | |
| Women's Studies | E/R | 0.5 | 12 | |
| AP U.S. Government and Politics (L) | E/R | 1 | 12 | 3.0 Cumulative GPA recommended. AP Government and Politics fulfills the Civics requirement |
| Civics | R | 0.5 | 12 | |
| Contemporary Issues in America | E/R | 0.5 | 12 | |
| Psychology | E/R | 0.5 | 12 | |
| AP Psychology (L) | E/R | 1 | 12 | 3.0 Cumulative GPA recommended |

| SOCIAL STUDIES (Pages 68-71 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|--|-----------------|----------------|---------------|--|
| Senior Social Studies Washington D.C. Seminar (Discovering Democracy) (Spring) | E/R | 0.5 | 12 | Enrollment in AP U.S Government and Politics <u>or</u> first or second trimester Civics Must have a C or better in AP US History <u>or</u> a B or better in US History Students planning to go on the Discovering Democracy field trip must be in this class. |
| AP Study Hall | E | 0 | 10-12 | Current Enrollment in an AP World History, AP US History, AP Psychology or AP US Government and Politics |

| SPECIAL EDUCATION (Pages 72-73 descriptions) *Enrollment limited to students with an Individual Education Plan (IEP) | Credits | Grades | Prerequisites/Fees |
|--|----------------|---------------|---------------------------|
| English EE | 0.5 per tri | 9-12 | IEP required |
| Math EE | 0.5 per tri | 9-12 | IEP required |
| Science EE | 0.5 per tri | 9-12 | IEP required |
| Social Studies EE | 0.5 per tri | 9-12 | IEP required |
| Academic Strategies | 0.5 per tri | 9-12 | IEP required |
| Strategies for Success | 0.5 per tri | 9-12 | IEP required |
| Special Design Physical Education | 0.5 per tri | 9-12 | IEP required |
| Functional Living | 0.5 per tri | 9-12 | IEP required |
| Recreation and Leisure | 0.5 per tri | 9-12 | IEP required |
| Career and Community Pathways | 0.5 per tri | 9-12 | IEP required |
| SOAR Academy (Beyond 18) | 0.5 per tri | 12+ | IEP required |

| TUTORING (Page 74 descriptions) | Elec/Req | Credits | Grades | Prerequisites/Fees |
|---|-----------------|----------------|---------------|---|
| Tutor at Northside | E | 0.5 per tri | 11-12 | Counselor Approval, Strong Attendance Students must have a 2.5 GPA or better |
| Special Education Tutor | E | 0.5 | 11-12 | Teacher Recommendation Only |
| Peer Tutor/Mentor for Support For Success (L) | E | 0.5 per tri | 11-12 | Counselor Approval, Strong Attendance Students must have a 2.5 GPA or better |

| WORKPLACE EDUCATION (Page 75 descriptions) | Elec/Req | Credits | Grades | Prerequisites |
|---|-----------------|----------------|---------------|---|
| iCadet Program Computer Service | E | 0.5 per tri | 10-12 | Introduction to Computer Science <u>or</u> Computer Programming <u>or</u> Cybersecurity (PLTW) Completed application and interview |
| Youth CO-OP | E | 0.5 per tri | 11-12 | Completed Application. Students must see Ms.Kenyon |
| Youth Apprenticeship | E | 0.5 per tri | 11-12 | Completed Application. Students must see Ms.Kenyon |

| WORLD LANGUAGE (Pages 76-77 descriptions) | Elec/Req | Credits | Grades | Prerequisites |
|--|-----------------|----------------|---------------|---|
| Spanish in the Medical Field | E | 0.5 | 11-12 | C- in 2 nd trimester of Spanish 2 |
| Spanish 1 | E | 1 | 9-12 | |
| Spanish 2 | E | 1 | 9-12 | C- in 2 nd trimester of Spanish 1 |
| Spanish 3 | E | 1 | 10-12 | C- in 2 nd trimester of Spanish 2 |
| Spanish 4 | E | 1 | 11-12 | C- in 2 nd trimester Spanish 3 <u>or</u> instructor consent |
| Spanish 5 (L) | E | 1 | 12 | B- in 2 nd trimester of Spanish 4 <u>or</u> Advanced Spanish Foundations (2024-2025) <u>or</u> instructor consent \$315 fee for 3 college credits (\$105 per credit). Students who receive a C or higher may receive up to 11 retroactive credits from UW Green Bay for no additional costs. |

Agriculture



***Note:** All Agriculture Education students are members of the FFA program. The program offers hands-on experience in leadership, public speaking, intramural sports; develop student’s skills through contests and projects carried to the fair as part of each student’s financial gains. **To obtain FFA membership, a student must be enrolled in an agriculture class.**


| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|--|-----------------------|------------------------|------------------------|------------------------|
| Exploring Animals and Plants | E | | | |
| Exploring Food and Wisconsin Agriculture | E | | | |
| Vet Science 1 | | E | E | E |
| Vet Science 2 | | E | E | E |
| Plant Science (AS) (L) | | E | E | E |
| Wildlife Ecology – Fish and Birds | | E | E | E |
| Wildlife Ecology – Mammals | | E | E | E |
| Large Animal Science (AS) (L) | | | E | E |
| AG Independent Study | | | E | E |
| AG Business Management and Leadership | | | | E |

E = Elective R = Required course for graduation E/R = Elective choice but fulfills graduation requirement AS = Advanced Standing L= Laude Course

◊ = See description for additional information

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|---|--|
| <p>EXPLORING ANIMALS AND PLANTS Length of Course: One Trimester Grade(s): 9 Credits: 0.5 credit Prerequisite: None</p> | <p>This course is designed to introduce students to the exciting world of Agriculture and the vast array of opportunities which are available to them through agricultural education. Students will see how agriculture and agribusiness plays a vital role in our world through science, food, clothing, medicine, recreation, natural resources, communications and the economy. As a class we will explore a variety of agricultural topics such as horticulture, floriculture, landscaping animal science, small animals, and large animals. This course will include fun field trips and guest speakers.</p> |
| <p>EXPLORING FOOD AND WISCONSIN AGRICULTURE Length of Course: One Trimester Grade(s): 9 Credits: 0.5 credit Prerequisite: None</p> | <p>This course is designed to introduce students to the exciting world of Agriculture and the vast array of opportunities which are available to them through agricultural education. Students will see how agriculture and agribusiness plays a vital role in our world through science, food, clothing, medicine, recreation, natural resources, communications and the economy. As a class we will explore a variety of agricultural topics such as agricultural products, including honey, beef, eggs, poultry, trees, and other Wisconsin food and products. This course will include fun field trips and guest speakers.</p> |

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| <p>VET SCIENCE 1 Length of Course: One Trimester Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>This course is highly recommended if you plan to become a veterinarian, small animal technician, animal scientist, or animal researcher. This course incorporates the concepts and knowledge of basic veterinary science techniques and puts them into practice. Laboratory skills that are ideal for students interested in the veterinary science field or medical field will be taught. Topics to be discussed include medical terminology, anatomy, suturing, restraints, injections, physical exams, careers, safety, health, reproduction, scientific research and animal welfare. Each student will complete hands on veterinary skills including weighing an animal, cleaning, clipping, grooming, and suturing. Students can expect to take part in FFA activities.</p> |
| <p>VET SCIENCE 2 Length of Course: One Trimester Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: Vet Science 1</p> | <p>This course incorporates the concepts and knowledge of basic veterinary science techniques gained from Vet Science I and puts them into practice. Laboratory skills that are ideal for students interested in the veterinary science field or medical field will be taught. Students are guided through different real life case studies related to large and small animals. Laboratory skills that are ideal for students interested in the veterinary science field or medical field will be taught. Topics to be discussed include diagnosis, administering a treatment, practicing mock surgery procedures.</p> |
| <p>PLANT SCIENCE (AS) (L) Length of Course: Two Trimesters Grade(s): 10, 11, 12 Credits: 0.5 Credit per trimester Prerequisite: None Other Information: Advanced Standing credit awarded at BTC.</p>  | <p>In this course, students learn skills and information about one of the largest occupational areas in agriculture. The students grow holiday poinsettias, bedding plants, and houseplants in the school greenhouse. A hands-on approach is used to teach the skills of planting, pruning, grafting, landscaping, and propagation of various plants. Students will run the two aquaponics systems in the greenhouse, grow vegetables for the cafeteria, and care for the fish. Students also use plants to conduct an agriscience experiment of their choice. They also make centerpieces, corsages and various flower arrangements. An emphasis is placed on advertising and marketing of horticulture plants, with the students promoting and selling their products to the public to help pay for the cost of materials. Students can expect to take part in FFA activities. Plant Science will meet one semester of college entrance science requirements at University of Wisconsin Schools.</p> |
| <p>WILDLIFE ECOLOGY – FISH AND BIRDS Length of Course: One Trimester Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>Greater use of natural resources due to expanding population has caused intensive problems. The class develops knowledge of our natural resources and wildlife ecology focusing on fish, birds and their habitat. Students will explore career opportunities in the field. Guest speakers, field trips and outdoor activities will be used to teach students the importance and appreciation of the great outdoors. Units will include making fishing baits like spinners, jigs, and soft plastics, fish taxidermy, bird habitat, bird ecology, bird identification and many others.</p> |
| <p>WILDLIFE ECOLOGY – MAMMALS Length of Course: One Trimester Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>Greater use of natural resources due to expanding population has caused intensive problems. This class develops knowledge of our natural resources and wildlife ecology focusing on mammals and their habitat. Students will explore career opportunities in the field. Guest speakers, field trips and outdoor activities will be used to teach students the importance and appreciation of the great outdoors. Units will include taxidermy, quality deer management, North American mammals, small mammals and habitat improvement and restoration.</p> |

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| <p>LARGE ANIMAL SCIENCE (AS) (L) Length of Course: Two Trimesters Grade(s): 11, 12 Credits: 0.5 credit per trimester Other Information: Advanced Standing credit awarded at BTC.</p>  | <p>This course is designed to give students an advanced knowledge of production animals and the science that is surrounding the industry. The animals that will be covered include dairy, beef, swine, poultry, sheep, horses, and goats. This course will provide an understanding of breeds, animal health, nutrition, anatomy and physiology, training, and judging of each animal. Students will learn about the structural functions of reproduction, digestion, nervous, muscular and endocrine systems. Students will gain an understanding of technical areas such as growth hormones, artificial insemination, embryo transfer, heat synchronization, and cloning to improve efficient livestock production. Science based inquiry, group collaboration in problem solving, and hands-on laboratories activities will be included. Students can expect to take part in FFA activities. Large Animal Science will meet one semester of college entrance science requirements at University of Wisconsin Schools.</p> |
| <p>AG INDEPENDENT STUDY Length of Course: To Be Determined Grade(s): 11 or 12 Credits: 0.5 credit per trimester Prerequisite: Instructor Consent</p> | <p>This course is designed for students who have exhausted all of their options in a specific career path. Examples would include: Animal Science, Plant Science, Meat Science, Ag Business Communication, Vet Science, Livestock Evaluation, Equine, Conservation and Management. Students enrolled in this course will be required to take a leadership role in the classroom as well as fulfill the requirements of the course. Students will have the opportunity to work towards an industry certification. Instructor consent is required.</p> |
| <p>AG BUSINESS MANAGEMENT AND LEADERSHIP Length of Course: Two Trimesters Grade(s): 12 Credits: 0.5 credit per trimester Prerequisite: None</p> | <p>Agricultural Business and Leadership will include the study of the process and problem associated with becoming established in agribusiness or production agriculture. The subject matter covered will include the types, selection, and organization, management of a business, marketing of Ag products and overview of taxes, incorporation laws, and business accounting. Students will develop a complete management program for a student selected business, and advance leadership traits and skills to use in the business setting. The importance of Ag future contracts and marketing will be covered, and the students will be involved in the marketing of specific Ag commodities. The commodity unit will also cover future markets, hedging, speculating, and option trading. Students will also be involved in the Milton Public Library, creating lessons and teaching Ag to younger students.</p> |

Art






| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|---|-----------------------|------------------------|------------------------|------------------------|
| Art Foundations | E ▪ | E ▪ | E ▪ | E ▪ |
| Drawing | E ▪ | E ▪ | E ▪ | E ▪ |
| Painting | E ▪ | E ▪ | E ▪ | E ▪ |
| Ceramics | E ▪ | E ▪ | E ▪ | E ▪ |
| AP 2-D Art and Design (L) | | | E ▪ | E ▪ |
| Advanced Medium Exploration (L) | | | E ▪ | E ▪ |
| AP Study Hall | | | E | E |

E = Elective R = Required course for graduation E/R = Elective choice but fulfills graduation requirement AP = Advanced Placement L= Laude Course

▪ = Fee required

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| <p>ART FOUNDATIONS Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None Other Requirements: \$15 fee required * Additional conditions apply, see Global Education Coordinator</p> | <p>A basic art course, open to all students, to develop fundamental art skills and knowledge in various art mediums and methods. This course is for students who wish to learn, develop and improve their current art skills and creative abilities in preparation for more advanced studies in art.</p> |
| <p>DRAWING Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Art Foundations Other Requirements: \$15 fee required. * Additional conditions apply, see Global Education Coordinator</p> | <p>Through the study of art criticism and art history, students will explore and develop various drawing skills and techniques. This course is designed for students to enhance their knowledge and confidence with drawing media while discovering personal artistic interests.</p> |
| <p>PAINTING Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Art Foundations Other Requirements: \$15 fee required. * Additional conditions apply, see Global Education Coordinator</p> | <p>This course is a continuation and development of knowledge and skills. Infused with art criticism and art history, this course is designed to develop confidence and abilities in various painting media like watercolors and acrylics, and encourage students to pursue some of their artistic interests.</p> |

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| <p style="text-align: center;">CERAMICS</p> <p>Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Art Foundations Other Requirements: \$15 fee required  * Additional conditions apply, see Global Education Coordinator</p> | <p>A beginning exploratory course to learn about the history and usage of clay and ceramic objects. Students will develop skills, knowledge, and techniques in hand-building, glazing, wheel-throwing, and sculpture to demonstrate concepts of design and craft.</p> |
| <p style="text-align: center;">AP 2-D ART AND DESIGN (L)</p> <p>Length of Course: Two Trimesters Grade(s): 11, 12 Credits: 0.5 credit per trimester Prerequisite: Drawing and Painting Other Requirements: \$25 fee required  * Additional conditions apply, see Global Education Coordinator</p> | <p>AP 2-D Art and Design is an advanced course for the college-bound and career-oriented art students. It is designed for serious art students who wish to pursue a college-level art class while still in high school. The class will complete the three big ideas established by the Advanced Placement Program such as 1) investigate materials, processes, and ideas; 2) make art and design; 3) present art and design. Students will be required to work outside of the allocated class time on all 15 projects and the required work for the AP art portfolios.</p> |
| <p style="text-align: center;">ADVANCED MEDIUM EXPLORATION (L)</p> <p>Length of Course: Two Trimesters Grade(s): 11, 12 Credits: 0.5 credit per trimester Prerequisite: Two of the following: Drawing, Painting or Ceramics Other Requirements: \$25 fee required  * Additional conditions apply, see Global Education Coordinator</p> | <p>This is a capstone level course for students who are looking to refine and explore advanced skills using a specific medium (drawing, painting, ceramics) in a more independent setting. Students in this class will work to develop a personal style and pursue their artistic preferences more thoroughly. Students will demonstrate their learning through the making of several works of art and the creation of a portfolio.</p> |
| <p style="text-align: center;">AP STUDY HALL</p> <p>Length of Course: One Trimester (third trimester) Grade(s): 11, 12 Credits: 0 credit Prerequisite: Enrolled in AP 2-D Art and Design</p> | <p>AP Study Hall is a single trimester course during Trimester 3 designed for students who enroll in an AP class and plan to register for an AP exam. AP Study Hall is designed as additional work time to study and prepare for their AP exam(s) in the spring.</p> |

Automotive/Engines



| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|---|-----------------------|------------------------|------------------------|------------------------|
| Home and Auto Maintenance | E ▪ | E ▪ | E ▪ | E ▪ |
| Small Engines | E ▪ | E ▪ | E ▪ | E ▪ |
| Multi Cylinder Engines | E ▪ | E ▪ | E ▪ | E ▪ |
| Troubleshooting and Diagnostics | E ▪ | E ▪ | E ▪ | E ▪ |
| Automotive Autobody and Wiring | E ▪ | E ▪ | E ▪ | E ▪ |
| Automotive and Mechanics Capstone – Performance (L) | | | E ▪ | E ▪ |
| Automotive and Mechanics Capstone – Troubleshooting (L) | | | E ▪ | E ▪ |

E = Elective R = Required course for graduation E/R = Elective choice but fulfills graduation requirement ▪ = Fee required L= Laude Course

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| <p>HOME AND AUTO MAINTENANCE Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None Other Requirements: Fees may be required to purchase materials for projects</p> | <p>The biggest purchases of our lives are our vehicles and our homes. This class will take the basics of ownership and maintenance of both and teach you how to take care of them. This class will look at construction, reading floor plans, plumbing, electrical and maintenance of a house. The class will also look at the maintenance and purchase of small gasoline engines and automobiles. This class is for all students.</p> |
| <p>SMALL ENGINES Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None Other Requirements: Fees may be required to purchase materials for projects</p> | <p>Students deciding to explore Automotive, Diesel, Agricultural Mechanics field will receive instruction in shop safety, mechanical and measuring tools, fasteners, sealants, gaskets, engine construction, 2 and 4 stroke theories, fuel, lubrication, cooling systems, rebuild procedures, and engine maintenance and troubleshooting. Students will receive their Snap-On Hand Tool Identification and Safety certification. Students will also tear down and rebuild a classroom small engine. This is a prerequisite for all other Automotive and Mechanics classes.</p> |
| <p>MULTI CYLINDER ENGINES Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Small Engines Other Requirements: Fees may be required to purchase materials for projects</p> | <p>Students will further develop their skills in the field of Automotive, Diesel, and Agricultural Mechanics Field. Students will rebuild a Chevy V8 350 motor while discussing the Fuel system, Lubrication system, and valve train. Students will also receive their Snap-On Battery Charging and Starting Certification.</p> |

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| <p style="text-align: center;">TROUBLESHOOTING AND DIAGNOSTICS</p> <p>Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Small Engines Other Requirements: Fees may be required to purchase materials for projects</p> | <p>Students will further develop their skills in the field of Automotive, Diesel, and Agricultural Mechanics Field. Students will troubleshoot a variety of engines and vehicles while discussing the Fuel system, Lubrication system, and all other systems dealing with ignition. Students will also learn to use and diagnose a vehicle with a scan tool. Students will also receive their Snap-On Multimeter Certification.</p> |
| <p style="text-align: center;">AUTOMOTIVE AUTOBODY AND WIRING</p> <p>Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Small Engines Other Requirements: Fees may be required to purchase materials for projects</p> | <p>Students will further develop their skills in the field of Automotive, Diesel, and Agricultural Mechanics Field. Students will learn the auto body process including using body filler and a spray gun. Rust repair and body damage processes will be covered. Students will also learn to read a wiring diagram and diagnose wiring issues. Students will also receive their Snap-On Multimeter Certification.</p> |
| <p style="text-align: center;">AUTOMOTIVE AND MECHANICS CAPSTONE – PERFORMANCE (L)</p> <p>Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Small Engines <u>AND</u> two of the following: Multi Cylinder Engines, Troubleshooting and Diagnostics, or Automotive Autobody and Wiring Other Requirements: Fees may be required to purchase materials for projects</p> | <p>Students will further develop their skills in the field of Automotive, Diesel, and Agricultural Mechanics Field. Students will combine all of their prior knowledge and apply it to a project. Students will focus on performance by having the project function optimally.</p> |
| <p style="text-align: center;">AUTOMOTIVE AND MECHANICS CAPSTONE – TROUBLESHOOTING (L)</p> <p>Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Small Engines <u>AND</u> two of the following: Multi Cylinder Engines, Troubleshooting and Diagnostics, or Automotive Autobody and Wiring Other Requirements: Fees may be required to purchase materials for projects</p> | <p>Students will further develop their skills in the field of Automotive, Diesel, and Agricultural Mechanics Field. Students will combine all of their prior knowledge and apply it to a project. Students will focus on troubleshooting by problem solving any issues with the project.</p> |

Business Education



| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|--|-----------------------|------------------------|------------------------|------------------------|
| Introduction to Business and Marketing | E | E | E | E |
| Workplace Applications | E | E | E | E |
| Entrepreneurship | E | E | E | E |
| Marketing | E | E | E | E |
| Social Media Design | | E | E | E |
| Sports and Entertainment Management | | E | E | E |
| Accounting 1 | | E | E | E |
| Accounting 2 | | E | E | E |
| Financial Literacy and Employability Skills (FLES) | | | R | |
| Retail Design (School Store) Fall | | | E | E |
| Retail Communications (School Store) Winter | | | E | E |
| School-Based Enterprise (L) | | | E | E |

E = Elective R = Required course for graduation E/R = Elective choice but fulfills graduation requirement L= Laude Course

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| <p>INTRODUCTION TO BUSINESS AND MARKETING Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>This course sets the foundation for all other business classes and helps students discover if business and marketing is right for them. Because of the variety of topics covered in the class, students will have the opportunity to explore many different sides of business and marketing in just one trimester through a variety of activities and projects!</p> |
| <p>WORKPLACE APPLICATIONS (formerly Computers for the Workplace) Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>In this course, students will learn how to use the programs in the Microsoft Office 2019 suite. Students will learn the Windows operating system and have the opportunity to test for the Microsoft Office Associate certifications at no cost to the student. Beyond high school, students will likely need to use Microsoft Word, Excel, and/or PowerPoint no matter the industry they enter. This course will give students the basic knowledge of the Windows operating system, how to use a desktop computer, and the tools found in the software applications Word, Excel, and PowerPoint.</p> |
| <p>ENTREPRENEURSHIP Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Introduction to Business and Marketing</p> | <p>Interested in starting your own business or running a business of your own one day? This class will walk students through every step of the entrepreneurial process and experience what it takes to get a business off and running. Students will develop a business plan for their business and give a short presentation at the end of class in hopes of getting a fictional investor to invest in their idea.</p> |

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| <p align="center">MARKETING</p> <p>(formerly Principles of Marketing)</p> <p>Length of Course: One Trimester</p> <p>Grade(s): 9, 10, 11, 12</p> <p>Credits: 0.5 credit</p> <p>Prerequisite: Introduction to Business and Marketing</p> | <p>Students dive into the world of branding, advertising, product development and all things marketing in this class. We will create a variety of products and complete many hands-on activities as we explore the various marketing tools businesses use to connect their products with the consumer. Students will go through the process of developing a marketing plan for a business or product. With a brief overview of the subject, students are able to experience a wide variety of applications of marketing principles throughout the trimester.</p> |
| <p align="center">SOCIAL MEDIA DESIGN</p> <p>Length of Course: One Trimester</p> <p>Grade(s): 10, 11, 12</p> <p>Credits: 0.5 credit</p> <p>Prerequisite: None</p> | <p>The Social Media Design course aims to equip students with the necessary knowledge and skills to effectively design and create engaging content for social media platforms. Through the use of design programs, such as Canva, students will complete a variety of hands-on activities designing social media content for different social media platforms. Students will explore the fundamentals of social media design and learn transferable skills that will help them create professional looking materials which could be utilized in a variety of content areas.</p> |
| <p align="center">SPORTS AND ENTERTAINMENT MANAGEMENT</p> <p>Length of Course: One Trimester</p> <p>Grade(s): 10, 11, 12</p> <p>Credits: 0.5 credit</p> <p>Prerequisite: Introduction to Business & Marketing</p> <p>Suggested Prerequisite: Marketing</p> | <p>In Sports & Entertainment Management, students apply the marketing concepts learned in previous marketing courses to the specific industry of entertainment and sports. Students engage in projects and activities focused on promoting a variety of types of events. You will have the opportunity to develop your very own sports franchise as well as create other events during this class!</p> |
| <p align="center">ACCOUNTING 1</p> <p>(formerly Introduction to Accounting)</p> <p>Length of Course: One Trimester</p> <p>Grade(s): 10, 11, 12</p> <p>Credits: 0.5 credit</p> <p>Suggested Prerequisite: Introduction to Business and Marketing and Workplace Applications</p> | <p>Any student interested in pursuing a business or economics degree will likely be required to take at least one accounting course in college. Students that take a high school accounting class will be one step ahead of classmates and better prepared for the course content. Even if a student is not going to college, this accounting course can be very helpful for students that plan to manage a business or start their own business as it covers the basics of bookkeeping and financial analysis. Students are encouraged, but not required to take the Introduction to Business and Marketing class as well as the Workplace Applications course to have a better understanding of business basics and spreadsheet applications.</p> |
| <p align="center">ACCOUNTING 2</p> <p>(formerly Intermediate Accounting)</p> <p>Length of Course: One Trimester</p> <p>Grade(s): 10, 11, 12</p> <p>Credits: 0.5 credit</p> <p>Prerequisite: At least a C in Accounting 1</p> <p>Suggested Prerequisite: Workplace Applications</p> | <p>In the second accounting course, students will learn more accounting-focused concepts such as bookkeeping for a merchandising corporation, inventory management, and other management accounting topics. This class allows students to conduct deeper financial analysis and participate in application-based projects. Students should earn at least a C in Accounting 1 and it is highly suggested that students take the Workplace Applications course before or alongside this class.</p> |
| <p align="center">FINANCIAL LITERACY AND EMPLOYABILITY SKILLS (FLES)</p> <p>Length of Course: One Trimester</p> <p>Grade(s): 11, Required for Graduation</p> <p>Credits: 0.5 credit</p> <p>Prerequisite: None</p> | <p>This course is required for all juniors to graduate at Milton High School. The course teaches employment skills to better prepare our students to find, obtain, and maintain their future employment. Students will also learn to manage their money, including saving and budgeting, credit and debt, insurance and investments, and many more vital life skills.</p> |



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| <p>RETAIL DESIGN (SCHOOL STORE) Length of Course: Fall Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Introduction to Business & Marketing and one other business class (not Financial Literacy)</p> | <p>Students enrolled in Retail Design will be in charge of maintaining and operating all aspects of the school store. They will learn the daily operations of running a business with an emphasis on product research and design. Students will develop and manage the product mix for the store. They will learn what it takes to design new products and how to perform market research in order to best serve the store’s customers. Students will have the opportunity to implement the concepts learned in class through a realistic retail experience. Responsibilities for the school store could extend beyond the designated classroom time.</p> <p>This course is <u>no longer</u> repeatable for credit</p> |
| <p>RETAIL COMMUNICATIONS (SCHOOL STORE) Length of Course: Winter Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Introduction to Business & Marketing and one other business class (not Financial Literacy)</p> | <p>Students enrolled in Retail Communications will be in charge of maintaining and operating all aspects of the school store. They will learn the daily operations of running a business with an emphasis on promotions, advertising and visual merchandising. Students will create a variety of promotional materials for the school store and manage its social media accounts through the duration of the course. They will have the opportunity to implement the concepts learned in class through a realistic retail experience. Responsibilities for the school store could extend beyond the designated classroom time.</p> <p>This course is <u>no longer</u> repeatable for credit</p> |
| <p>SCHOOL-BASED ENTERPRISE (L) Length of Course: Spring Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Introduction to Business and Marketing and two other business classes (not Financial Literacy)</p> | <p>In this course, junior and senior level students will have the opportunity to apply for one or two areas of concentration and use their learning in a real entrepreneurial setting. Through the use of the Hawks’ Nest and in the future, other entrepreneurial opportunities, students will fully and completely provide all functions of the business with their peers. The student-lead learning and hands-on, real-world application will drive the entire existence of these businesses. Students will be allowed to retake this course a second time, if they choose a different concentration area. Once enrolled, students will apply for a particular concentration area they are interested in: Accounting & Finance, Inventory & Supply Chain Management, Social Media Marketing & Advertising, Promotions & Visual Merchandising, OR Product Research & Design.</p> <p>This course <u>is</u> repeatable for credit</p> |

Child and Education Studies



| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|--|-----------------------|------------------------|------------------------|------------------------|
| Careers with Children (AS) (L) | | E | E | E |
| Early Childhood Education (AS) (L) | | | E | E |

E = Elective R = Required course for graduation E/R = Elective choice but fulfills graduation requirement AS = Advanced Standing L= Laude Course

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| <p>CAREERS WITH CHILDREN (L) Length of Course: One Trimester (only offered first trimester) (AS) Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: None Other Information: Advanced Standing credit awarded at BTC.</p>  | <p>This course covers the prenatal, natal, and postnatal development of a child. Students study the heredity and environmental influences of the development of the prenatal child. Care and nurturance of a newborn baby is covered. The study of infancy and toddlerhood is covered by projects and individualized units. An infant simulation will be completed by each student. Developmental stages for preschool age children are emphasized. A preschool is organized and operated for two weeks by the Careers with Children class. Professional appearance is required during the preschool.</p> |
| <p>EARLY CHILDHOOD EDUCATION (AS) (L) Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Careers with Children Other: Transportation is the responsibility of the student Other Information: Advanced Standing credit awarded at BTC.</p>  | <p>Students will learn the integral skills needed for employment in the childcare industry. The stages of child development will be studied to incorporate techniques of positive guidance for interacting with young children. Students will learn to create developmentally appropriate activities and materials for children. The importance of learning the USDA dietary guidelines for children and infants, modifications needed for children with special needs and keeping children in the daycare setting healthy and safe, will be reinforced. A portion of this class will have students volunteering in a licensed child care facility. Students that successfully complete all the competencies will receive the Wisconsin Assistant Child Care Teacher Cooperative Education Certificate (ACCT Certification) and will be employable in a licensed child care facility.</p> |




Computer Science

| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|--|-----------------------|------------------------|------------------------|------------------------|
| Introduction to Computer Science | E | E | E | E |
| IT Fundamentals | E | E | E | E |
| Computer Programming | E | E | E | E |
| AP Computer Science A (L) | | E | E | E |
| AP Computer Science Principles (PLTW) (AS) (L) (Same as PLTW Computer Science Principles) | | E | E | E |
| Cybersecurity (PLTW) (L) | | E | E | E |
| AP Study Hall | | E | E | E |

E = Elective R = Required course for graduation E/R = Elective choice but fulfills graduation requirement AP = Advanced Placement

AS = Advanced Standing L= Laude Course

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| <p>INTRODUCTION TO COMPUTER SCIENCE Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>This course will teach students the basics of computer science. Major emphasis will be placed on logical reasoning, programming techniques, and problem solving skills. Students will design and write several computer programs & games incorporating the following computer programming topics: memory usage, decision structures, looping, object design, and the interaction of objects. The majority of this course will use the Scratch, MIT App Inventor, and Java programming languages.</p> |
| <p>IT FUNDAMENTALS Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: None</p> | <p>This course emphasizes the practical application of skills and procedures needed for computer hardware and software installations, upgrades, and troubleshooting systems. Students will also explore basic networking, security, and customer support concepts. Emphasis will be on both theory and hands-on activities. At the completion of this course students will have the knowledge to potentially earn a CompTIA IT Fundamentals certification. This class is an introduction class and so there are no prerequisites.</p> |
| <p>COMPUTER PROGRAMMING Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Introduction to Computer Science or Algebra 1</p> | <p>This course is an introduction to programming in the Java language. Students will learn the fundamentals of writing programs through the use of conditional statements, iterations, objects, graphics, and writing simple to complex programs. A major emphasis of the class will be to improve students' problem solving and logical reasoning skills.</p> |
| <p>AP COMPUTER SCIENCE A (L) Length of Course: Two Trimesters Grade(s): 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Introduction to Computer Science or Computer Programming or Geometry Offered in 2024-2025</p> | <p>This two-trimester course is comparable to the first course in the introductory sequence for computer science majors in college. The AP Computer Science A course is intended to serve both as an introductory course for computer science majors and as a course for people who will major in other disciplines that require significant involvement with technology. JAVA is the language that will be used in the course and all foundational information will be taught starting with JAVA basics. Students will have the opportunity to take the Advanced Placement exam.</p> |

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| <p>AP COMPUTER SCIENCE PRINCIPLES (PLTW) (AS) (L)</p> <p>Length of Course: Two Trimesters</p> <p>Grade(s): 10, 11, 12</p> <p>Credits: 0.5 credit per trimester</p> <p>Prerequisite: Introduction to Computer Science or Computer Programming or Geometry</p>   <p>Offered in 2025-2026</p> | <p>Computer Science Principles (CSP) is a PLTW course to implement the College Board’s new AP CS Principles framework. Students work individually and in teams to develop computer systems and solve problems. The course aims to develop computational thinking. Python, however, is taught and used as a part of this effort. Each unit focuses on one or more computationally intensive career paths: Graphics Programming, Data Management and Mining, Internet Programming, Encryption, Simulation, Machine Learning, and Artificial Intelligence (AI) development. The course also aims to engage students to consider issues raised by the present and future societal impact of computing. Assigned projects aim for ground-level entry with no ceiling to maximize student opportunity to explore, while keeping open to all.</p> |
| <p>CYBERSECURITY (PLTW) (L)</p> <p>Length of Course: Two Trimesters</p> <p>Grade(s): 10-12</p> <p>Credits: 0.5 credit per trimester</p> <p>Prerequisite: Introduction to Computer Science, Computer Programming or Geometry</p>  <p>Offered in 2024-2025</p> | <p>Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students’ knowledge of and commitment to ethical computing behavior. It also aims to develop students’ skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.</p> |
| <p>AP STUDY HALL</p> <p>Length of Course: One Trimester (third trimester)</p> <p>Grade(s): 10, 11, 12</p> <p>Credits: 0 credit</p> <p>Prerequisite: Enrolled in: AP Computer Science A <u>or</u> AP Computer Science Principles</p> | <p>AP Study Hall is a single trimester course during Trimester 3 designed for students who enroll in an AP class and plan to register for an AP exam. AP Study Hall is designed as additional work time to study and prepare for their AP exam(s) in the spring.</p> |

Construction Trades



| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|--|-----------------------|------------------------|------------------------|------------------------|
| Home and Auto Maintenance | E ▪ | E ▪ | E ▪ | E ▪ |
| Construction 1 | E ▪ | E ▪ | E ▪ | E ▪ |
| Woods 1: Introduction to Woodworking | E ▪ | E ▪ | E ▪ | E ▪ |
| Woods 2: Advanced Woodworking | E ▪ | E ▪ | E ▪ | E ▪ |
| Construction Trades - Interior | E ▪ | E ▪ | E ▪ | E ▪ |
| Construction Trades - Exterior | | E ▪ | E ▪ | E ▪ |
| Construction Trades Systems Capstone (L) | | | E ▪ | E ▪ |
| Construction Trades Processes Capstone (L) | | | E ▪ | E ▪ |
| Offered in 2025-2026 | | | | |

E = Elective

R = Required course for graduation

E/R = Elective choice but fulfills graduation requirement L= Laude Course

▪ = Fee required

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| <p>HOME AND AUTO MAINTENANCE Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None Other Requirements: Fees may be required to purchase materials for projects</p> | <p>The biggest purchases of our lives are our vehicles and our homes. This class will take the basics of ownership and maintenance of both and teach you how to take care of them. This class will look at construction, reading floor plans, plumbing, electrical and maintenance of a house. The class will also look at the maintenance and purchase of small gasoline engines and automobiles. This class is for all students.</p> |
| <p>CONSTRUCTION 1 Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None Other Requirements: Fees may be required to purchase materials for projects</p> | <p>The course will provide a fundamental introduction to the construction industry. This hands-on course equips students with essential knowledge and practical skills required to work with tools and engage in basic construction projects. Participants will gain a strong foundation in safety protocols, measurement, construction tools, materials, and construction principles.</p> |
| <p>WOODS 1: INTRODUCTION TO WOODWORKING Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None Other Requirements: Fees may be required to purchase materials for projects</p> | <p>Woodworking presents students with many opportunities to solve problems, utilize math skills, and express their artistic side. This course is designed to introduce students to the basics of Woodworking practices, woodshop safety, measurement, appropriate use of machine tools, while cultivating a lifelong appreciation for craft, handiwork, and quality. Students will build various projects designed to connect theory to practice.</p> |

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| <p>WOODS 2: ADVANCED WOODWORKING Length of course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Woods 1: Introduction to Woodworking Other Requirements: Fees may be required to purchase materials for projects</p> | <p>Woodworking presents students with many opportunities to solve problems, utilize math skills, and express their artistic side. This course will offer students the opportunity to select a project of their choosing (w/ consultation of instructor) as a means of using previously learned woodworking skills and pushing forward into new practices. The course will emphasize shop safety, problem solving, and developing/advancing a mentality of thoughtful craft.</p> |
| <p>CONSTRUCTION TRADES - INTERIOR Length of Course: Winter Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Construction 1 Other Requirements: Fees may be required to purchase materials for projects</p> | <p>Will provide students with the foundation knowledge and experience to get started in the construction areas of Electrical, Insulation, Drywall, Plumbing, and HVAC. Students will understand the various components of building construction systems as well as proper and safe tool use and installation techniques. The program includes work in an interactive hands-on lab and a year-round larger lab complete with an “indoor house.”</p> |
| <p>CONSTRUCTION TRADES - EXTERIOR Length of Course: Fall Trimester Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: Construction 1 Other Requirements: Fees may be required to purchase materials for projects</p> | <p>The course will provide students with the foundation knowledge and experience to get started in the construction areas of rough framing, doors, windows, siding and roofing. Students will understand the various components of building construction systems as well as proper and safe tool use and installation techniques. The program includes work in an interactive hands-on lab and a year-round larger lab complete with an “indoor house.”</p> |
| <p>CONSTRUCTION TRADES SYSTEMS CAPSTONE (L) Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Construction Trades – Exterior <u>or</u> Construction Trades – Interior Other Requirements: Fees may be required to purchase materials for projects</p> | <p>This course is the culminating experience that integrates and applies knowledge and skills gained throughout the construction trades program. Students will work on real-world construction projects, demonstrating proficiency in various construction trades, project planning, execution, and leadership. This capstone experience challenges students to work collaboratively, think critically, and showcase their abilities in a simulated construction work environment.</p> |
| <p>CONSTRUCTION TRADES PROCESSES CAPSTONE (L) Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Construction Trades – Exterior <u>or</u> Construction Trades - Interior Other Requirements: Fees may be required to purchase materials for projects Offered in 2025-2026</p> | <p>This course serves as the pinnacle experience in the construction trades program, integrating theoretical understanding, technical skills, and practical application of construction processes. Students engage in real-world construction projects, where they apply advanced construction techniques, project management principles, and problem-solving strategies. The capstone experience challenges students to demonstrate their proficiency and competence in all aspects of construction trades processes.</p> |

Digital Media and Technology



| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|------------------------------------|-----------------------|------------------------|------------------------|------------------------|
| Digital Media 1 | E | E | E | E |
| Digital Media 2 | E | E | E | E |
| Media Production | E | E | E | E |
| Game Design 1 | | E | E | E |
| Video Production 1 | | E | E | E |
| Video Production 2 | | E | E | E |
| Web Design | | E | E | E |

E = Elective

R = Required course for graduation

E/R = Elective choice but fulfills graduation requirement

◇ = See description for additional information

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| <p>DIGITAL MEDIA 1 Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>Digital Media I explores Photoshop, GarageBand, and Final Cut Pro. Create print, audio, and video media in this project-based class. Design graphics, produce and host a podcast, and direct and edit video. When finished, showcase your work on Red Hawk Media.</p> |
| <p>DIGITAL MEDIA 2 Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Digital Media 1</p> | <p>Digital Media II continues exploring graphics, audio, and video at an advanced level. In this project-based curriculum, you master Photoshop, GarageBand, and Final Cut Pro while being introduced to Adobe After Effects, Web Design, Game Design, and Video Production.</p> |
| <p>MEDIA PRODUCTION Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Digital Media 1 and 2</p> | <p>Join the Red Hawk Media production team, the #1 high school student media group in WI. Whether in front of or behind the camera, experience a student production environment. Build viewership on the most popular YouTube channel run by students. Members of the production team not only learn about equipment, setup, and camera angles, but also teamwork, roles of the production environment, and of course how to produce Red Hawk Talk (student news show), sports, show choir, band, musicals, homecoming, and everything Milton High School. This course will provide students with technical and media production skills that easily translate into a variety of digital media environments and industries.</p> |
| <p>GAME DESIGN 1 Length of course: One Trimester Grade(s) 10, 11, 12 Credits: 0.5 credit Prerequisite: Digital Media 1 and 2</p> | <p>In this course students design and build 2D & 3D games. Students explore basic engineering, problem-solving, team building, programming, and design workflows. Write basic code, manipulate graphics, animate, while creating playable games. This course enriches students with engineering and computer programming skills that directly translate into a variety of gaming fields and industries.</p> |

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| <p>VIDEO PRODUCTION 1 Length of Course: One Trimester Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: Digital Media 1 and 2</p> | <p>Discover the fundamentals of video production, expanding concepts learned in Digital Media. In conjunction with Red Hawk Media, help create the Homecoming Video, direct short films, and participate in a 10 Day Film challenge. While becoming master storytellers, students work with production software: Final Cut Pro, Adobe Premiere, and After Effects. A must have class for any student exploring video/film production as a career choice.</p> |
| <p>VIDEO PRODUCTION 2 Length of Course: One Trimester Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: Video Production 1</p> | <p>This is a portfolio-based course for serious filmmakers. Explore a variety of genres, film styles, and learn the advanced editing techniques unique to each genre while building your portfolio. Use Adobe Premiere and Adobe After Effects to edit footage shot with cinema cameras. A must have class for any student pursuing video/film production as a career choice.</p> |
| <p>WEB DESIGN Length of Course: One Trimester Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: Digital Media 1 and 2</p> | <p>In this class, students explore the world of web development. Students compare and contrast websites, learn the basics of architecture, format, and planning websites, as well as constructing and publishing sites. Students learn HTML and CSS, and utilize various platforms and coding languages for building websites. Throughout the trimester students build a personal, corporate, and ecommerce website.</p> |

Engineering and Design



| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|---|-----------------------|------------------------|------------------------|------------------------|
| Introduction to Computer Aided Design (CAD) | E ▪ | E ▪ | E ▪ | E ▪ |
| Fab Lab Basics | E ▪ | E ▪ | E ▪ | E ▪ |
| Architectural Drafting and Design | E ▪ | E ▪ | E ▪ | E ▪ |
| Computer Aided Design (CAD) and Prototyping | | E ▪ | E ▪ | E ▪ |
| AP Computer Science A (L) | | E | E | E |
| AP Computer Science Principles (PLTW) (AS) (L) (Same as PLTW Computer Science Principles) | | E | E | E |
| Principles of Engineering (PLTW) (AS) (L) | | E | E | E |
| Manufacturing Enterprise (L) | | | E ▪ | E ▪ |

E = Elective R = Required course for graduation E/R = Elective choice but fulfills graduation requirement AS = Advanced Standing L= Laude Course

▪ = Fee required

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| <p>INTRODUCTION TO COMPUTER AIDED DESIGN (CAD) Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: None Other Requirements: Fees may be required to purchase materials for projects</p> | <p>This is a fun and interactive class that teaches students to design and create objects using 3D design software. Everything that is manufactured starts with a design and this class will teach students how to create amazingly realistic parts. This course will combine the use of 3D design software and rapid prototyping methods using 3D printing. This course is an excellent choice for students interested in the drafting, engineering, or manufacturing fields.</p> |
| <p>FAB LAB BASICS Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: None Other Requirements: Fees may be required to purchase materials for projects</p> | <p>Do you like art, design, electronics, building or wonder how everyday things are made? Do you have an idea that solves a want or a need? Would you like to improve a product or build something of your own that is fun and functional? Let us help you learn how to make just about anything. In the Fab Lab you will use state-of-the-art equipment to turn an idea into a design that you will build and test. This course develops skills used in many interrelated career fields, including engineering, science, mathematics, art, graphic design, computer aided design (CAD), electronics, and entrepreneurship.</p> |
| <p>ARCHITECTURAL DRAFTING AND DESIGN Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: None Other Requirements: Fees may be required to purchase materials for projects</p> | <p>This course introduces the concepts of 3D architectural design. We will cover basic modeling techniques of residential and commercial buildings. By the end of the course, students will have developed a set of typical drawings necessary for the construction of the building. Additional topics could include specialty trades such as structural engineering, mechanical, electric, plumbing, landscaping, interior design and construction of physical 3D models of the design. Employment in this area is strong and projected to grow at an above average pace.</p> |

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| <p>COMPUTER AIDED DESIGN (CAD) AND PROTOTYPING</p> <p>Length of Course: One Trimester</p> <p>Grade(s): 10, 11, 12</p> <p>Credits: 0.5 credit per trimester</p> <p>Prerequisite: Introduction to Computer Aided Design</p> <p>Other Requirements: Fees may be required to purchase materials for projects</p> | <p>This class expands on skills learned in Intro to Computer Aided Design to create working prototypes. Students will use 3D modeling software and a variety of tools in the FAB LAB to create, build and test prototypes through various hands-on design challenges.</p> |
| <p>AP COMPUTER SCIENCE A (L)</p> <p>Length of Course: Two Trimesters</p> <p>Grade(s): 10, 11, 12</p> <p>Credits: 0.5 credit per trimester</p> <p>Prerequisite: Introduction to Computer Science or Computer Programming or Geometry</p> <p>Offered in 2024-2025</p> | <p>This two-trimester course is comparable to the first course in the introductory sequence for computer science majors in college. The AP Computer Science A course is intended to serve both as an introductory course for computer science majors and as a course for people who will major in other disciplines that require significant involvement with technology. JAVA is the language that will be used in the course and all foundational information will be taught starting with JAVA basics. Students will have the opportunity to take the Advanced Placement exam.</p> |
| <p>AP COMPUTER SCIENCE PRINCIPLES (PLTW) (AS) (L)</p> <p>Length of Course: Two Trimesters</p> <p>Grade(s): 10, 11, 12</p> <p>Credits: 0.5 credit per trimester</p> <p>Prerequisite: Introduction to Computer Science or Computer Programming or Geometry</p> <p>Offered in 2025-2026</p>   | <p>Computer Science Principles (CSP) is a PLTW course to implement the College Board's new AP CS Principles framework. Students work individually and in teams to develop computer systems and solve problems. The course aims to develop computational thinking. Python, however, is taught and used as a part of this effort. Each unit focuses on one or more computationally intensive career paths: Graphics Programming, Data Management and Mining, Internet Programming, Encryption, Simulation, Machine Learning, and Artificial Intelligence (AI) development. The course also aims to engage students to consider issues raised by the present and future societal impact of computing. Assigned projects aim for ground-level entry with no ceiling to maximize student opportunity to explore, while keeping open to all.</p> |
| <p>PRINCIPLES OF ENGINEERING (PLTW) (AS)(L)</p> <p>Length of course: Two Trimesters</p> <p>Grade(s) 10, 11, 12</p> <p>Credits: 0.5 credit per trimester</p> <p>Prerequisite: None</p>   <p>Offered in 2025-2026</p> | <p>Principles of Engineering (POE) is a foundation course of the high school engineering pathway. Students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, Robotics (using Vex V5 System), Machine Learning and Artificial Intelligence (AI) Design.</p> <p>Students have the opportunity to develop skills and understanding of course concepts through activity, project, and problem-based (APB) learning. By solving rigorous and relevant design problems using engineering and science concepts within a collaborative learning environment, APB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem-solving skills. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education.</p> |
| <p>MANUFACTURING ENTERPRISE (L)</p> <p>Length of Course: One Trimester</p> <p>Grade(s): 11, 12</p> <p>Credits: 0.5 credit per trimester</p> <p>Prerequisite: Introduction to Business and Marketing <u>or</u> Woods I <u>or</u> Introduction to Computer Aided Design</p> <p>Other Requirements: Fees may be required to purchase materials for projects</p> | <p>Manufacturing Enterprise will give students the opportunity to research, design, build, market and sell products made in the shop with the ultimate goal of making a profit. This class will focus on all aspects of today's manufacturing industry. Students will be responsible for quoting jobs, ordering materials, building products, quality control, marketing and everything else that it takes to run a successful business.</p> |

English



GRADUATION REQUIREMENT:

4 credits – 8 trimesters of English

Note: Students must take one credit of English each year. See MHS Required Courses on page 20 for more information.

| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|---|-----------------------|------------------------|------------------------|------------------------|
| English 9 or Honors English 9 (L) | R | | | |
| English 10 or Honors English 10 (L) | | R | | |
| English 11 (AS) | | | R | |
| AP English Language and Composition (L) | | | E/R | E/R |
| AP English Literature and Composition (L) | | | E/R | E/R |
| World Literature | | | | E/R |
| Speech | | | | E/R |
| British Literature | | | | E/R |
| Contemporary Fiction Literature | | | | E/R |
| Critical Perspectives in Mass Communication | | | | E/R |
| Journalistic Publications | | E | E | E/R |
| AP Study Hall | | | E | E |

E = Elective

R = Required course for graduation

E/R = Elective choice but fulfills graduation requirement



AP = Advanced Placement

AS = Advanced Standing

L = Laude Course

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| <p style="text-align: center;">ENGLISH 9</p> <p>Length of Course: Two Trimesters Grade(s): 9 Credits: 0.5 credit per trimester Prerequisite: None</p> | <p>This course includes comprehensive study of various literary forms: novel, short story, non-fiction, drama, and poetry. Numerous composition assignments arise from the reading. Writing is process-oriented, suggesting steps for prewriting, drafting, and revision, focusing mainly on expository writing. Vocabulary, spelling, speech, research, grammar, and punctuation units are also components of the course. Students will also do independent reading each trimester.</p> |
| <p style="text-align: center;">HONORS ENGLISH 9 (L)</p> <p>Length of Course: Two Trimesters Grade(s): 9 Credits: 0.5 credit per trimester Prerequisite: None</p> | <p>This course is designed for the college bound freshman. The course will incorporate an accelerated version of the major units of English 9. Furthermore, students will study one additional novel, generate higher-level expository and literary analysis of writing, use advanced vocabulary, and utilize sophisticated grammar/usage/editing skills.</p> |
| <p style="text-align: center;">ENGLISH 10</p> <p>Length of Course: Two Trimesters Grade(s): 10 Credits: 0.5 credit per trimester Prerequisite: None</p> | <p>The main focus of the course is on writing. Numerous composition assignments arise from reading various literary forms: novel, short stories, non-fiction, and drama. Writing is process-oriented, suggesting steps for prewriting, drafting, and revising. Writing focuses on various essay formats featuring expository, literary analysis, argumentative, and research writing. Vocabulary, spelling, speech, research, grammar, study skills, usage and punctuation are also components of the course.</p> |

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| <p>HONORS ENGLISH 10 (L) Length of Course: Two Trimesters Grade(s): 10 Credits: 0.5 credit per trimester Prerequisite: None</p> | <p>This course is designed for the college bound sophomore. The course will incorporate an accelerated version of the major units of English 10. Furthermore, students will study two additional novels, generate higher-level expository literary analysis and argumentative writing, use advanced, college-level vocabulary, and utilize sophisticated grammar/usage/editing skills.</p> |
| <p>ENGLISH 11 (AS) Length of Course: Two Trimesters Grade(s): 11 Credits: 0.5 credit per trimester Prerequisite: None Other Information: Advanced Standing credit awarded at BTC</p>  | <p>English 11 is required for all juniors unless they select to take AP English Language. This two trimesters course is designed to engage students in careful reading and analysis of major movements and pieces of American literature from Colonialism to Modernism. Students will also explore themes of contemporary non-fiction and connect them to real world issues. In addition, students will review basic grammar, vocabulary and the principles of writing. Students will write different types of essays, including description, narration, persuasion, comparison and contrast, argumentative, synthesis, analysis and cause and effect.</p> |
| <p>AP ENGLISH LANGUAGE AND COMPOSITION (L) Length of Course: Two Trimesters Grade(s): 11, 12 Credits: 0.5 credit per trimester Prerequisite: Honors English 10 or B or higher in last English course recommended</p> | <p>A two trimesters course designed to help students become skilled readers of nonfiction literature written in a variety of rhetorical contexts and to become skilled writers who compose for a variety of purposes. The course will provide opportunities to write about a variety of subjects and to demonstrate an awareness of audience and purpose. The overarching objective in the course is to enable students to move beyond the five-paragraph essay while placing the emphasis on content, purpose, and audience and allowing it to guide the organization of their writing. In turn, this provides them with more experience in writing expository, analytical, and argumentative essays which forms the basis of academic and professional communication. In the composition course, students will learn to read primary and secondary sources carefully, to synthesize materials from these texts in their own compositions. Students who successfully complete the AP English Language and Composition Examination in the spring may earn college credit with a score of 3 or higher on the AP exam. Students may be required to complete a summer reading and online discussion assignment.</p> |
| <p>AP ENGLISH LITERATURE AND COMPOSITION (L) Length of Course: Two Trimesters Grade(s): 11, 12 Credits: 0.5 credit per trimester Prerequisite: Honors English 10 recommended for Juniors</p> | <p>A two trimesters course designed to engage students in careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. The course includes intensive study of representative works from various genres and periods – taking time to understand a work’s complexity, to absorb the richness of meaning, and to analyze how that meaning is embodied in literary form. Writing to understand, explain, and evaluate a literary work may involve writing response and reaction papers along with annotations, analyzing and interpreting aspects of language and structure, and making and explaining judgments about its artistry and exploring its underlying social and cultural values through analysis, interpretation, and argument. Emphasis will be placed on helping students develop strong critical thinking skills that can be articulated through sophisticated, mature writing and discussions. Students who successfully complete the AP English Literature and Composition Examination in the spring may earn college credit. Students are required to complete a summer reading and online discussion assignment.</p> <p>HOW DOES THE AP ENGLISH LANGUAGE COURSE DIFFER FROM THE AP ENGLISH LITERATURE COURSE?</p> <ol style="list-style-type: none"> 1. AP English Language and Composition emphasizes expository, analytical, and argumentative writing using primary and secondary sources from a variety of rhetorical contexts, while AP English Literature and |

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| | <p>Composition emphasizes analytical, explanatory, and evaluative writing using literature-based sources including short stories, novels, prose, and dramas.</p> <p>2. Students receiving the score of a 3, 4, or 5 on the AP English Language and Composition Exam may receive exemption from general English writing requirements for college. Students receiving the score of a 3, 4, or 5 on the AP English Literature and Composition Exam may receive exemption from Literature and general English writing requirements for college.</p> <p>Both courses provide students with the opportunity to improve their critical thinking skills through analytical reading and to enhance their writing skills through deeper analysis. <u>They are both strongly recommended for students entering four-year universities, including students entering science or mathematical fields.</u> The courses will provide students with the necessary skills to prepare research papers, articulate their thoughts through discussions and writing, and successfully write essays in timed occasions like final exams.</p> |
| <p>WORLD LITERATURE </p> <p>Length of Course: One Trimester Grade(s): 12 Credits: 0.5 credit</p> | <p>This course is intended to expand students' experience with both literature and culture, incorporating several regional units of study including Latin America, The Mediterranean, The Far East, Africa, and Continental Europe. Assessment of student performance comes in a variety of forms: journals, small-group and individual projects, quizzes, and unit exams. Students should approach the class with an open mind and must understand that they are expected, as is the case with most English classes, to write and that their writing is part of the assessment process.</p> |
| <p>SPEECH</p> <p>Length of Course: One Trimester Grade(s): 12 Credits: 0.5 credit</p> | <p>This course emphasizes: public speaking, verbal and nonverbal communication, critical thinking, cross-cultural communication, perception and self-concept, gender differences in communication, and strategies for overcoming performance anxiety. The fundamentals of each are applied in a variety of individual presentations, group activities, and research projects. Students will utilize and develop reading, writing, listening, and speaking skills. Assessment of student performance comes in a variety of forms: small-group projects, written work, individual speeches, and unit tests.</p> |
| <p>BRITISH LITERATURE </p> <p>Length of Course: One Trimester Grade(s): 12 Credits: 0.5 credit</p> | <p>This course emphasizes major movements and pieces of English/British literature from the Anglo-Saxon Period through the Victorian era. Students will learn to identify major periods in the development of literature, recognize many important British authors, comprehend and implement literary terms in literary analysis, discussions, and creative writing.</p> |
| <p>CONTEMPORARY FICTION LITERATURE</p> <p>Length of Course: One Trimester Grade(s): 12 Credits: 0.5 credit</p> | <p>This course provides students with the opportunity to explore the themes of contemporary fiction literature and connect them to real world issues, conflicts, and events. In addition to being a reading intensive course, the course will challenge students to analyze, synthesize and evaluate the author's viewpoint and purpose for writing the novel through in-class graded discussions, formal and informal essays, daily assignments, and group projects. Students will be expected to use higher-order thinking skills to extract the deeper meanings and contexts out of the texts, while showing an aptitude in vocabulary, grammar, and other conventions.</p> |

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| <p>CRITICAL PERSPECTIVES IN MASS COMMUNICATION Length of Course: One Trimester Grade(s): 12 Credits: 0.5 credit</p> | <p>This course is designed to expand student’s knowledge and experience with various forms of mass communication. Students will explore mass media and discuss its influence on American culture. Students will regularly be asked to analyze content and respond through both class discussion and formal writing. A large component of the course focuses around film study and analysis. This course provides students the opportunity to study film from the 1920s to today. Students will engage in meaningful analyses of how films are constructed, how directors and writers create meaning within visual mediums, how filmmakers use different creative techniques, and how films and other media are products of cultural moments in history.</p> |
| <p>JOURNALISTIC PUBLICATIONS Length of Course: One Trimester, Two Trimesters or Three Trimesters Grade(s): 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Student must have earned a C or higher in previous English course, or Teacher recommendation/approval Other Information: This course may be taken multiple trimesters and years. Sophomores and juniors may take Journalistic Publications as an elective in addition to the required English10/English 11 courses. Seniors may take Journalistic Publications as an English credit.</p> | <p>Students in this course are responsible for the design and publication of the high school yearbook, <i>The Talon</i>, AND the high school newspaper, <i>MHS Today</i>. Students should have a background or interest in one of the following areas: photography, desktop publishing, art/design or written language. This course is designed to expose the student to the skills of photography, journalism and page production, and to assist him/her in acquiring the responsible attitude necessary to meet the demands of a production schedule and a publication deadline. Students will also study American journalism history and journalism ethics. Activities include interviewing, feature and news writing, layout, picture planning, sales design, advertising and computer work. Students must produce quality work, work together in groups, communicate effectively with staff and peers, be able to handle deadline pressure and should expect to spend additional time outside of the class working on the publications. Students who have not earned a passing grade during trimester 1 will be removed from the course for trimester 2.</p> |
| <p>AP STUDY HALL Length of Course: One Trimester (third trimester) Grade(s): 11, 12 Credits: 0 credit Prerequisite: Enrolled in: AP English Language and Composition or AP English Literature and Composition</p> | <p>AP Study Hall is a single trimester course during Trimester 3 designed for students who enroll in an AP class and plan to register for an AP exam. AP Study Hall is designed as additional work time to study and prepare for their AP exam(s) in the spring.</p> |

Family and Consumer Education

| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|---------------------------------|-----------------------|------------------------|------------------------|------------------------|
| Foods for Life | | E ▪ | E ▪ | E ▪ |
| Food Science | | E ▪ | E ▪ | E ▪ |
| Culinary Arts | | E ▪ | E ▪ | E ▪ |
| Fashion Styling | E ▪ | E ▪ | E ▪ | E ▪ |
| Housing Design | E | E | E | E |

E = Elective

R = Required course for graduation

E/R = Elective choice but fulfills graduation requirement

▪ = Fee required

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| <p>FOODS FOR LIFE</p> <p>Length of Course: One Trimester Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: None Other Requirements: Food fee of \$25 is required</p> | <p>This trimester course offers students the basics of food preparation. Weekly labs are designed to focus on the importance of practicing good nutrition in our daily food choices. The units focus on safety and sanitation in the kitchen and different types of cookery. Students will demonstrate basic knowledge of kitchen equipment. Food labs emphasize food preparation techniques as they apply to menu planning for all ages. Practical application skills projects are stressed.</p> |
| <p>FOOD SCIENCE</p> <p>Length of Course: One Trimester Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: None Other Requirements: Food fee of \$25 is required</p> | <p>This trimester course will allow students to experiment with familiar, everyday objects and ingredients to learn some of the natural laws that govern food preparation. Through simple experiments, students will have hands-on experience in observing these laws at work. It will take advantage of a students' natural interest in food to spark interest and curiosity in science. The discoveries made in experiments will be of immediate practical benefit. Students will gain skills and attitudes that are applicable not only to the study of other sciences, but also to many aspects of their lives. This hands-on course gives the unique opportunity of applying their education to the real world. It can also help students develop their interest and literacy in science.</p> |
| <p>CULINARY ARTS</p> <p>Length of Course: One Trimester Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: None Other Requirements: Food fee of \$25 is required.</p> | <p>This course is designed for those who are interested in building knowledge of foods and related career study. This course will expand on a variety of different preparation methods as well as food safety and sanitation techniques. The skills learned in this course can be used for preparation for current food occupations. Team building skills are emphasized in weekly labs as students work together in applying these to food preparation project.</p> |
| <p>FASHION STYLING</p> <p>Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None Other Requirements: Additional money to be spent by students on project materials</p> | <p>This course brings life to the exciting world of fashion through an in-depth look at how the apparel industries work. It opens students' eyes to the many ways in which they might coordinate their lifestyle with those industries. It helps students gain knowledge that will be valuable to them whether they become an integral part of the fashion world or an informed consumer who knows how it all works. This course offers a variety of hands-on activities that stimulate interest in all facets of the fashion world.</p> |
| <p>HOUSING DESIGN</p> <p>Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>This course is intended for students with a strong interest in architectural and interior design. Hands on projects will center on the creation of a functional, safe and healthy environment in housing situations. A creative hands-on approach to learning is featured through display boards, individual projects and computer simulations.</p> |

Health Care Careers



| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|---|-----------------------|------------------------|------------------------|------------------------|
| Principles of Biomedical Science (PLTW) (L) | E/R | E | E | E |
| Human Body Systems (PLTW) (L) | | E | E | E |
| Spanish in the Medical Field | | | E | E |
| Structural Anatomy and Physiology of the Human Body | | | E | E |
| Cellular Anatomy and Physiology of the Human Body | | | E | E |
| Nursing Assistant (CNA) (L) | | | E ◊▪ | E ◊▪ |
| EMT – Basic Provider Course | | | E ◊▪ | E ◊▪ |

E = Elective



R = Required course for graduation

E/R = Elective choice but fulfills graduation requirement AS = Advanced Standing

◊ = See description for additional information

L= Laude Course

▪ = Fee required

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| <p>PRINCIPLES OF BIOMEDICAL SCIENCE (PLTW) (L) Length of course: Two Trimesters Grade(s) 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Strong Science skills recommended</p>  | <p>In Principles of Biomedical Science, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problem.</p> |
| <p>HUMAN BODY SYSTEMS (PLTW) (L) Length of course: Two Trimesters Grade(s) 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Principles of Biomedical Science (C- or better)</p>  | <p>Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal manikin; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.</p> |
| <p>SPANISH IN THE MEDICAL FIELD Length of Course: One Trimester Grade(s): 11-12 Credits: 0.5 credit per trimester Prerequisite: C- or better in 2nd trimester of Spanish 2</p> | <p>This course is designed for those students going into the Medical Field, but not taking the full Spanish curriculum. This course will introduce the vocabulary and cultural understanding necessary to engage in successful Spanish communication in the medical field. The course will entail real-life application and practice. This course is not considered a world language for college admission.</p> |
| <p>STRUCTURAL ANATOMY AND PHYSIOLOGY OF THE HUMAN BODY Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Biology or Principles of Biomedical Science (C or higher)</p> | <p>This course is a continuation of the one trimester high school biology course, with a focus on body structure and control. It emphasizes the structure and functions of the skeletal, muscular and nervous systems and how these systems work together to control body movements and their association with other organ systems. Structural Anatomy and Physiology is especially recommended for students planning a career in physical therapy, massage therapy, sports medicine, physical education, or any medical field. Students are not required to take Cellular Anatomy and Physiology as a prerequisite. The courses are independent of each other.</p> |

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| <p>CELLULAR ANATOMY AND PHYSIOLOGY OF THE HUMAN BODY Length of Course: One trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Biology or Principles of Biomedical Science (C or higher)</p> | <p>This course is a continuation of the one trimester high school biology course, with a focus on the systems responsible for keeping you alive. It emphasizes the structure and functions of the circulatory, respiratory, digestive, and endocrine systems and how these systems work together with other systems to maintain a stable internal environment.</p> <p>Students are not required to take Structural Anatomy and Physiology as a prerequisite. The courses are independent of each other.</p> |
| <p>NURSING ASSISTANT (CNA) (L) Length of Course: One or Two Trimesters Grade(s): 11, 12 Credits: 1.0 credit Other Information: Additional application required. There will be fees associated with registration.</p> | <p>This one trimester long Nursing Assistant course is offered at Milton High School. This course is composed of classroom and clinical experiences at area health facilities. Students receive high school credit and technical college credit after successful completion of the course. The class prepares students for the role of a Nursing Assistant in a health care setting and is a prerequisite for many other health related careers. Students must pass a state test at the end of the course to be placed on the Wisconsin Nursing Assistant Registry.</p> <p>Students will be required to complete additional paperwork (background check and health screenings), additional fees will be required. Once students sign up, they will be contacted with further instructions.</p> <p>Spots are limited.</p> |
| <p>EMT – BASIC PROVIDER COURSE (L) Length of Course: Full Year Grade(s): 11, 12 Credits: 1.5 credit Other Information: Additional application required. There will be fees associated with registration.</p> <p>This course has been approved by the Wisconsin Department of Human Services EMS Division as a provider course and for all persons looking to become licensed as an EMT-Basic in the state of Wisconsin. This course follows national DOT curriculums and is taught by MercyHealth staff at Milton High School.</p> | <p>An Emergency Medical Technician is trained to respond to emergencies and provide efficient and immediate care to the ill and injured and transport the patient to an appropriate medical facility. The EMT course is an extensive course, combining didactic studies, clinical duties, computer-based learning and testing, and practical skills. This course is designed to train police, fire, rescue personnel, and people interested in the techniques of pre-hospital emergency care. The curriculum, developed by the U.S. Department of Transportation, will prepare students for the National Registry Examination for Emergency Medical Technician, and receive state licensure as an EMT from the state of Wisconsin.</p> <p>This course is a full year course (trimester one, two, and three). <u>Students wanting to take this course need to commit to completing the full course and earning the certification.</u></p> <p>Students will be required to complete additional paperwork (background check and health screenings), additional fees will be required. Once students sign up, they will be contacted with further instructions.</p> <p>Spots are limited.</p> |

Manufacturing and Welding

| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|--|-----------------------|------------------------|------------------------|------------------------|
| Manufacturing and Welding 1 (AS)*(L)* | E ▪ | E ▪ | E ▪ | E ▪ |
| Welding 2 (AS)*(L)* | E ▪ | E ▪ | E ▪ | E ▪ |
| Manufacturing Technology | E ▪ | E ▪ | E ▪ | E ▪ |
| Manufacturing Systems | E ▪ | E ▪ | E ▪ | E ▪ |
| Manufacturing and Welding Processes Capstone (AS)* (L) | | | E ▪ | E ▪ |
| Manufacturing and Welding Operations Capstone (AS)* (L) | | | E ▪ | E ▪ |

E = Elective

R = Required course for graduation

E/R = Elective choice but fulfills AS = Advanced Standing graduation requirement

▪ = Fee required

L= Laude Course

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| <p>MANUFACTURING AND WELDING 1 (AS)*(L)*</p> <p>Length of course: One Trimester</p> <p>Grade(s) 9, 10, 11, 12</p> <p>Credits: 0.5 credit</p> <p>Other Requirements: Fees may be required to purchase materials for projects</p> <p>*Advanced Standing and Laude designation pending BTC Approval as an Advanced Standing Course</p> | <p>Students deciding to enter the manufacturing and welding field will receive instruction in shop safety, as well as the use and care of hand tools, power tools, machine tools and welding equipment. Manufacturing methods are initiated with an introduction to machinery and material types, along with their basic applications. Students start with small metalworking projects, which lead to projects that are more complicated. Technology-related mathematics, reading, writing, vocabulary, blueprint reading and science are integrated throughout the curriculum.</p> |
| <p>WELDING 2 (AS)*(L)*</p> <p>Length of course: One Trimester</p> <p>Grade(s) 9, 10, 11, 12</p> <p>Credits: 0.5 credit</p> <p>Prerequisite: Manufacturing and Welding 1</p> <p>Other Requirements: Fees may be required to purchase materials for projects</p> <p>*Advanced Standing and Laude designation pending BTC Approval as an Advanced Standing Course</p> | <p>Students will further develop their skills in the field of welding with advanced weldments in the following processes: SMAW, GMAW and GTAW. Students will learn about non-destructive and destructive testing methods, along with welding defects. Students will learn how to read welding blueprints and apply their knowledge within the weld shop. Welding related mathematics, reading, writing, vocabulary, and science are integrated throughout this course.</p> |
| <p>MANUFACTURING TECHNOLOGY</p> <p>Length of course: One Trimester</p> <p>Grade(s) 9, 10, 11, 12</p> <p>Credits: 0.5 credit</p> <p>Prerequisite: Manufacturing and Welding 1</p> <p>Other Requirements: Fees may be required to purchase materials for projects</p> | <p>Students receive instruction in and demonstrate skills and knowledge in machine safety, measuring tools, speeds and feeds, lathe operation, mill operation, pedestal grinder, various types of welding machines, cutting tools, and drill press operation as well as CNC plasma cutting. Students continue to receive instruction in safety requirements and demonstrate sound safety practices, technology-related mathematics, reading, writing, vocabulary, blueprint reading, and science are integrated throughout the curriculum.</p> |

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| <p>MANUFACTURING SYSTEMS Length of course: One Trimester Grade(s) 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Manufacturing and Welding 1 Other Requirements: Fees may be required to purchase materials for projects</p> | <p>Students receive instruction in and demonstrate skills and knowledge in machine safety, measuring tools, speeds and feeds, lathe operation, mill operation, pedestal grinder, various types of welding machines, cutting tools, and drill press operation as well as CNC plasma cutting. Students continue to receive instruction in safety requirements and demonstrate sound safety practices, technology-related mathematics, reading, writing, vocabulary, blueprint reading, and science are integrated throughout the curriculum.</p> |
| <p>MANUFACTURING AND WELDING PROCESSES CAPSTONE (L) (AS)* Length of course: One Trimester Grade(s) 11, 12 Credits: 0.5 credit Prerequisite: Welding II and Manufacturing Technology or Manufacturing Systems Other Requirements: Fees may be required to purchase materials for projects</p> <p>*Advanced Standing pending BTC Approval as an Advanced Standing Course. Must take both Capstone Courses for BTC AS Credit for 3 credits total</p> | <p>Students will develop advanced concepts and skills related to welding and machining. Topics include: blueprint planning and layout, advanced concepts in welding and machine processes and procedures, and advanced construction techniques in sheet metal fabrication. Students can earn their AWS certification upon completion of this course.</p> |
| <p>MANUFACTURING AND WELDING OPERATIONS CAPSTONE (L) (AS)* Length of course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Welding II and Manufacturing Technology or Manufacturing Systems Other Requirements: Fees may be required to purchase materials for projects</p> <p>*Advanced Standing pending BTC Approval as an Advanced Standing Course. Must take both Capstone Courses for BTC AS Credit for 3 credits total</p> | <p>Students will develop advanced concepts and skills related to welding and machining. Topics include: blueprint planning and layout, advanced concepts in welding and machine processes and procedures, and advanced construction techniques in sheet metal fabrication. Students can earn their AWS certification upon completion of this course.</p> |

Mathematics



GRADUATION REQUIREMENT:

3 credits- 6 trimesters of Math

See MHS Required Courses on page 20 for more information.

| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|---|-----------------------|------------------------|------------------------|------------------------|
| Algebra 1 | R | | | |
| Geometry or Honors Geometry (L) | R | R | | |
| Shop Math 1 (AS)(L) | | | E/R | E/R |
| Shop Math 2 (AS)(L) | | | E/R | E/R |
| Intermediate Algebra | | | E/R | E/R |
| Algebra 2 or Honors Algebra 2 (L) | | E/R | E/R | E/R |
| AP Precalculus (L) (formerly Precalculus) | | E/R | E/R | E/R |
| College Algebra | | | E/R | E/R |
| Trigonometry | | | E/R | E/R |
| Probability and Statistics | | | E/R | E/R |
| AP Calculus (L) | | | | E/R |
| AP Statistics (L) | | | E/R | E/R |
| AP Study Hall | | | E | E |

E = Elective



R = Required course for graduation

E/R = Elective choice but fulfills graduation requirement


AP = Advanced Placement

AS = Advanced Standing L= Laude Course

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| <p>ALGEBRA 1</p> <p>Length of Course: Two Trimesters</p> <p>Grade(s): 9</p> <p>Credits: 0.5 credit per trimester</p> <p>Prerequisite: Passing the first trimester of Algebra I is a prerequisite for the second trimester</p> | <p>The fundamentals, which are the foundation for all higher mathematics, are studied in this course. Topics include the properties of the real number system, functions and their graphs, equations and their solutions, and elementary probability and statistics.</p> |
| <p>GEOMETRY</p> <p>Length of Course: Two Trimesters</p> <p>Grade(s): 9, 10</p> <p>Credits: 0.5 credit per trimester</p> <p>Prerequisites: Completion of Algebra 1, passing first trimester of Geometry is a prerequisite for the second trimester</p> | <p>The habits of thought acquired in this subject are so important that most colleges require a year of geometry for entrance. In this course, lines, angles, triangles, circles, parallel and perpendicular lines and their relationships are studied. Through an informal and intuitive approach, students explore and apply geometric principles; formal geometric proofs are included where appropriate. In addition, to enhance their understanding, students use dynamic geometry software to model geometric relationships.</p> |

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| <p>HONORS GEOMETRY (L) Length of Course: Two Trimesters Grade(s): 9, 10 Credits: 0.5 credit per trimester Prerequisite: Completion of Algebra 1, passing first trimester of Honors Geometry is a prerequisite for the second trimester</p> | <p>This course will cover the same objectives as Geometry. The class work and activities are more challenging and faster paced.</p> |
| <p>SHOP MATH 1 (AS)(L) Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Completion of Algebra 1 and Geometry Other Information: Advanced Standing awarded at BTC.</p>  | <p>This course includes the basic principles of arithmetic beginning with whole numbers and common fractions, and continuing through decimals, percentages, ratios, proportions and averages, measurements, use of constants, tapers and coordinate systems. These principles are applied to typical shop problems throughout the course.</p> <p><i>*NOT an NCAA Initial Clearinghouse approved course.</i></p> |
| <p>SHOP MATH 2 (AS)(L) Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Shop Math 1 Other Information: Advanced Standing awarded at BTC.</p>  | <p>This course is a continuation of Shop Math I and includes the study of the properties of circles, volumes and surface areas of various solids, an introduction to practical algebra and trigonometric principles used in solving right triangles as well as applications of the sine and cosine law in solving oblique triangles.</p> <p><i>*NOT an NCAA Initial Clearinghouse approved course.</i></p> |
| <p>INTERMEDIATE ALGEBRA Length of Course: Two Trimesters Grade(s): 11, 12 Credits: 0.5 credit per trimester Prerequisite: Completion of Algebra 1 and Geometry, passing first trimester of Intermediate Algebra is a prerequisite for the second trimester</p> | <p>This class will review and strengthen students' math skills that have been learned in previous courses to prepare them for further math classes and/or to help in taking tests such as the ACT, ASVAB, Compass, and college placement exams.</p> <p><i>*NOT an NCAA Initial Clearinghouse approved course</i></p> |
| <p>ALGEBRA 2 Length of Course: Two Trimesters Grade(s): 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Completion of Algebra 1 and Geometry Other Information: Algebra 2 is a prerequisite for college admission to the UW system</p> | <p>This course extends the study of Algebra. Among new topics presented are complex numbers, conic sections, logarithms, series, and sequences. This course is designed for students who have mastered the concepts of Algebra I and Geometry.</p> |

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| <p>HONORS ALGEBRA 2 (L) Length of Course: Two Trimesters Grade(s): 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Completion of Algebra 1 and Geometry, Algebra 2 is a prerequisite for college admission to the UW system</p> | <p>This course will cover the same objectives as Algebra II. The class work and activities are more challenging and faster paced.</p> |
| <p>AP PRECALCULUS (L) (formerly Pre-Calculus) Length of Course: Two Trimesters Grade(s): 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Algebra 2 (B or higher)</p> | <p>AP Precalculus focuses on studying different types of functions used in modeling. Students in this course will study polynomial, rational, exponential, logarithmic, trigonometric and polar functions as well as functions involving parameters, vectors and matrices. These types of functions are critical to careers in math, physics, biology as well as health, social and data science. Students will work with these functions and their properties graphically, numerically, verbally and analytically. Applications of each function type to a variety of contexts will also be included.</p> |
| <p>COLLEGE ALGEBRA Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Completion of Algebra 2</p> | <p>This course is designed for the student who has a math background through Algebra II, but who does not feel ready to take Precalculus. The course focuses on problem-solving using skills acquired in previous math courses. Topics revisited include exponent rules, rational expressions and equations, quadratic equations, complex numbers and logarithms.</p> |
| <p>TRIGONOMETRY Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Completion of Algebra 2, this course does not satisfy the prerequisite for AP Calculus Other Information: Students who have taken or are currently taking Precalculus may not take this course</p> | <p>This course will cover the study of the trigonometric functions as defined both by the circle and the triangle. Special emphasis will be given to the application of trigonometry in scientific and technical areas.</p> |
| <p>PROBABILITY AND STATISTICS Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Completion of Algebra 2</p> | <p>This course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will use computers along with the methods of probability, descriptive statics, and inferential statistics to plan and carry out a project. A course in statistics is usually required for students majoring in business, engineering, economics, nursing or psychology.</p> |
| <p>AP CALCULUS (L) Length of Course: Two Trimesters Grade(s): 12 Credits: 0.5 credit per trimester Prerequisite: AP Precalculus (B or higher) (formerly Precalculus)</p> | <p>This course is designed for the student who has completed the standard high school program (Algebra I, Geometry, Algebra II, and AP Precalculus) and has demonstrated an excellence in mathematics. Students examine applications of differentiation (the mathematics of the rate at which quantities change) and applications of integration (the mathematics of the accumulation of change in quantities)</p> |

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| <p>AP STATISTICS (L) </p> <p>Length of Course: Two Trimesters Grade(s): 11, 12 Credits: 0.5 credit per trimester Prerequisite: Algebra 2 (B or higher) Honors Algebra 2</p> | <p>AP Statistics courses introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. This course is relevant for students entering almost all fields of study in college that require any sort of scientific or social research. Major emphasis is placed on deciding which statistical measure is appropriate and successfully applying the formula. Memorization of formulas is not emphasized in the class or on the AP Exam. Students electing this course should plan on taking the AP Statistics Test in the spring of the year. Students are required to complete some work over the summer.</p> |
| <p>AP STUDY HALL</p> <p>Length of Course: One Trimester (third trimester) Grade(s): 10,11, 12 Credits: 0 credit Prerequisite: Enrolled in: AP Precalculus, AP Statistics or AP Calculus</p> | <p>AP Study Hall is a single trimester course during Trimester 3 designed for students who enroll in an AP class and plan to register for an AP exam. AP Study Hall is designed as additional work time to study and prepare for their AP exam(s) in the spring.</p> |

Music





All students participating in the Milton High School Band program will be members of the Marching Band, which meets during the summer and 1st trimester (detailed summer and fall schedule will be distributed each spring of the preceding year).

The band program has numerous summer, evening and weekend commitments.

| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|---|-----------------------|------------------------|------------------------|------------------------|
| Chamber Ensemble | E ◊ | E ◊ | E ◊ | E ◊ |
| Symphonic Band | E ◊ | E ◊ | | |
| Wind Ensemble | | | E ◊ | E ◊ |
| Women's Show Choir (Octave Above) | E ◊ | E ◊ | E ◊ | E ◊ |
| Mixed Concert Choir | E | E | E | E |
| Mixed Show Choir (Choralation) | E ◊ | E ◊ | E ◊ | E ◊ |
| Chamber Choir | E ◊ | E ◊ | E ◊ | E ◊ |
| Music Theory 1 | E ◊ | E ◊ | E ◊ | E ◊ |
| Music Theory 2 | E ◊ | E ◊ | E ◊ | E ◊ |
| AP Music Theory (L) | | E ◊ | E ◊ | E ◊ |
| AP Study Hall | | E | E | E |

E = Elective R = Required course for graduation E/R = Elective choice but fulfills graduation requirement ◊ = See description for additional information L= Laude Course

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| <p>CHAMBER ENSEMBLE Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Non-Audition, Instructor Consent</p> | <p>This course is open to all high school marching band students interested in an additional ensemble centered around chamber music. In this class students will learn musical skills that apply to smaller ensembles and independent playing. They will also learn the history of chamber music and wind band repertoire. This class will meet for one period every day in the first trimester and will culminate in a concert at the conclusion of the trimester.</p> |
| <p>SYMPHONIC BAND Length of Course: Three Trimesters Grade(s): 9, 10 Credits: 1.0 credit for the school year Prerequisite: Audition or consent of instructor</p> | <p>This band is for students in grades 9 and 10. Membership in this band is determined by audition or consent of instructor. This class meets five days per week for the entire year (3 trimesters). Accommodations can be made for students who are involved in both band and one of the vocal ensembles that meet during 3rd block (music block) so that they can be involved in both ensembles. Attendance at all performances is required, including festivals, concerts, parades, competitions and selected sporting events. Returning/new to the district High School band students and students successfully completing 8th grade band will be eligible for Symphonic Band (or at the discretion of the director).</p> |
| <p>WIND ENSEMBLE Length of Course: Three Trimesters Grade(s): 11, 12 Credits: 1.0 credit for the school year Prerequisite: Audition or consent of instructor</p> | <p>This band is for students in grades 11 and 12. Membership in this band is determined by audition or consent of instructor. This class meets 5 days per week for the entire year (3 trimesters). Accommodations can be made for students who are involved in both band and one of the vocal ensembles that meet during 3rd block (music block) so that they can be involved in both ensembles. Attendance at all performances is required, including festivals, concerts, parades, competitions and selected sporting events.</p> |

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| <p>WOMEN'S SHOW CHOIR (OCTAVE ABOVE) Length of Course: Three Trimesters Grade(s): 9, 10, 11, 12 Credits: 1.0 credit for the school year Prerequisite: Audition  * Additional conditions apply, see Global Education Coordinator</p> | <p>Membership in this organization is <u>by audition only</u>. Students will learn proper vocal techniques and skill for Modern, Pop, Rock, Jazz, and Musical Theater Styles. This ensemble participates in concerts and competitions, with attendance at these events required. Additional uniform fee may be required by the Milton Choir Parents group.</p> |
| <p>MIXED CONCERT CHOIR Length of Course: Three Trimesters Grade(s): 9, 10, 11, 12 Credits: 1.0 credit for the school year Prerequisite: None</p> | <p>Students will learn proper vocal techniques and knowledge of traditional choral literature. This ensemble participates in concerts and festivals, with attendance at these events required. Additional uniform fee may be required by the Milton Choir Parents group.</p> |
| <p>MIXED SHOW CHOIR (CHORALATION) Length of Course: Three Trimesters Grade(s): 9, 10, 11, 12 Credits: 1.0 credit for the school year Prerequisite: Audition  * Additional conditions apply, see Global Education Coordinator</p> | <p>The ensemble is for both men and women. Membership in this organization is <u>by audition only</u>. Students will learn proper vocal techniques and skill for Modern, Pop, Rock, Jazz, and Musical Theater Styles. This ensemble participates in concerts and competitions, with attendance at these events required. Additional uniform fee may be required by the Milton Choir Parents group.</p> |
| <p>CHAMBER CHOIR Length of Course: Three Trimesters Grade(s): 9, 10, 11, 12 Credits: 1.0 credit for the school year Prerequisite: Audition</p> | <p>This ensemble is for both men and women. Membership is by audition only. This ensemble participates in concerts and some competitions, with attendance at these events required. Students will learn proper vocal techniques and skill for classical, modern, pop, jazz, and musical theater styles.</p> |
| <p>MUSIC THEORY 1 Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>This is an introductory course that will provide students with a more comprehensive understanding of music structure. The course outline includes: structure of melody, rhythm, key and meter signatures, intervals, scales, chords and sight singing/ear training.</p> |
| <p>MUSIC THEORY 2 Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>This is a continuation of the skills taught in Music Theory I and will further build students comprehensive understanding of music structure. Students will continue to explore the structure of melody, rhythm, key and meter signatures, intervals, scales, chords and sight singing/ear training.</p> |
| <p>AP MUSIC THEORY (L) Length of Course: Two Trimesters Grades: 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Music Theory 1 and 2 or instructor consent</p> | <p>This is the College Board Advanced Placement Music Theory course. It will be an introduction to the first year of college level musicianship, theory, musical materials, and procedures. The ultimate goal of the AP Music Theory course is to develop a student's ability to recognize, understand and describe the basic materials and procedures that are heard or presented in a score. This course will place an emphasis on preparing students for the AP music exam, college entrance music exams, and a life of music. Composition, form and analysis, review and use of Music Theory 1 concepts, transposition, and some music history and music appreciation will be explored.</p> |
| <p>AP STUDY HALL Length of Course: One Trimester (third trimester) Grade(s): 10, 11, 12 Credits: 0 credit Prerequisite: Enrolled in: AP Music Theory</p> | <p>AP Study Hall is a single trimester course during Trimester 3 designed for students who enroll in an AP class and plan to register for an AP exam. AP Study Hall is designed as additional work time to study and prepare for their AP exam(s) in the spring.</p> |

Physical Education and Health

Graduation Requirement: 1.5 credits

As we transition to a more student-oriented physical education curriculum, students will have the opportunity to select courses that align with their specific interests and physical fitness goals throughout their time at Milton High School. Students may take Athletic Performance once per trimester for any many trimesters as they want from their freshman to senior year. Students may take Competitive Sports and Lifelong Activities and Fitness beginning their sophomore year until their senior year. These two courses may be taken more than once by a student during that timeframe, however, for these courses to be repeated it must be taken during different school years. Students may combine Athletic Performance and a Competitive Sports course or Lifelong Activities and Fitness course within the same school year.

| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|--|-----------------------|------------------------|------------------------|------------------------|
| Health Education | R | | | |
| Freshman Physical Education | E/R | | | |
| Athletic Performance | E/R | E/R | E/R | E/R |
| Lifelong Activities and Fitness | | E/R | E/R | E/R |
| Competitive Sports | | E/R | E/R | E/R |
| Modified Physical Education | ◇ | ◇ | ◇ | |
| Music Block Physical Education | E/R | E/R | E/R | E/R |
| Summer School Physical Education | | E/R ◇ | E/R ◇ | |

E = Elective R = Required course for graduation E/R = Elective choice but fulfills graduation requirement ◇ = See description for additional information

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| <p>HEALTH EDUCATION Length of Course: One Trimester Grade(s): 9 Credits: 0.5 credit Prerequisite: None</p> | <p>An interactive, hands-on class where students are encouraged to participate in class discussion, group activities, and active research. All units incorporate a plethora of activities providing a varied learning experience. The objective of Health Education is to provide students with life skills that will assist them in living a happy, healthy, and successful life. Health units include: Communication, Personal Health & Wellness, Mental & Emotional Health, Nutrition, Alcohol, Tobacco & Other Drugs, CCR, Healthy Relationships and Human Growth & Development.</p> |
| <p>FRESHMAN PHYSICAL EDUCATION Length of Course: One Trimester Grade(s): 9 Credits: 0.5 credit Prerequisite: None</p> | <p>This course is designed to give students the opportunity to learn about and participate in a variety of games, sports, and fitness activities. Students will take part in individual, partner, and team activities that range from competitive gameplay to more lifelong recreational play. These games and activities may include but are not limited to: tennis, soccer, softball, floor hockey, basketball, volleyball, swimming, and backyard games, all while including an emphasis on fitness. This course can only be taken once and only as a freshman.</p> |
| <p>ATHLETIC PERFORMANCE Length of Course: One Trimester, Two Trimesters or Three Trimesters Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>This course is focused on enhancing the fitness and athletic performance of students through intense physical activity. The foundation of the class is based on speed, strength, and power training with additional emphasis placed on the mental and social aspects of fitness and athletic performance/competition. Students in this course should expect intense strength and fitness-building activities daily. This course can be taken once per trimester from freshmen year to senior year.</p> |

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| <p>LIFELONG ACTIVITIES AND FITNESS Length of Course: One Trimester Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>This course will focus on how movement can be used and implemented to create a lifetime fitness routine. Activities include, but are not limited to badminton, volleyball, walking, jogging, yoga, pilates, relaxation techniques, swimming, tumbling/rhythmic activities, yard games, frisbee, snowshoeing, and a variety of movement techniques. These skills will be reinforced for recreational and fitness-based purposes, encouraging students to become active participants in physical activity for the rest of their lives. This course can be taken once every school year for sophomores, juniors, and seniors.</p> |
| <p>COMPETITIVE SPORTS Length of Course: One Trimester Grade(s): 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>Within this course, students will actively participate in various competitive individual, partner, and team sports. Students will build their knowledge base of the rules and strategy of these sports while developing the skills to proficiently participate in these sports in a league or tournament setting. Classes will consist of drills and fast-paced competitive play of these sports, while also mixing in a limited amount of recreational play of more leisure and lifelong activities. The games and activities students will participate in may include but are not limited to softball, Wiffle ball, flag football, ultimate sports, lacrosse, floor hockey, basketball, volleyball, Groelleball, Spikeball, badminton, pickleball, tennis, and other fitness or lifelong activities. This course can be taken once every school year for sophomores, juniors, and seniors.</p> |
| <p>MODIFIED PHYSICAL EDUCATION Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Department selection, no IEP required</p> | <p>Daily physical education class which modifies/adapts the regular physical education curriculum to meet the physical needs and participation abilities of the student. Emphasis is on small group and individual activities which allow maximum participation by all students.</p> |
| <p>MUSIC BLOCK PHYSICAL EDUCATION Length of Course: Two Trimesters Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: Must be taking a Music Class with a Music Block</p> | <p>This course is a combination of all physical education classes available at Milton High School. Lessons are designed to help students discover what physical activities they enjoy participating in, with the goal of students becoming lifelong movers. Activities will include team sports, individual activities, personal fitness, team building, and much more.</p> |
| <p>SUMMER SCHOOL PHYSICAL EDUCATION Length of Course: Six Week Summer Session Incoming Grade(s): 10, 11 Credits: 0.5 credit Other Requirements: Students must sign up for this course through summer school registration</p> | <p>Students will master skills and movement patterns and apply learned skills to specific team sports. Activities to include, but not limited to: tennis, soccer, softball, floor hockey, basketball, volleyball, fitness and weight training, and swimming, with an emphasis in fitness.</p> |

Science



GRADUATION REQUIREMENT

3 credits- 6 trimesters

See MHS Required Courses on page 20 for more information.

| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|---|-----------------------|------------------------|------------------------|------------------------|
| Biology or Honors Biology (L) | E/R | | | |
| Principles of Biomedical Science (PLTW) (L) | E/R | E | E | E |
| Earth Science or Honors Earth Science (L) | E | E/R | E | E |
| Chemistry or Honors Chemistry (L) | | E/R | E/R | E/R |
| Honors Physics (L) | | | E/R | E |
| Physical Science | | | E/R | |
| Astronomy | E | E | E | E |
| Human Body Systems (PLTW) (L) | | E | E | E |
| AP Biology (L) | | E | E | E |
| AP Environmental Science (L) | | E | E | E |
| Structural Anatomy and Physiology of the Human Body | | | E | E |
| Cellular Anatomy and Physiology of the Human Body | | | E | E |
| AP Chemistry (L) | | | E | E |
| AP Study Hall | | E | E | E |

E = Elective

R = Required course for Graduation

E/R = Elective choice but fulfills graduation requirement

AP = Advanced Placement

AS = Advanced Standing

L= Laude Course

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| <p>BIOLOGY</p> <p>Length of Course: Two Trimesters</p> <p>Grade(s): 9</p> <p>Credits: 0.5 credit per trimester</p> <p>Prerequisite: None</p> | <p>Biology is a comprehensive introduction to the fundamental principles of life sciences. Students will study topics in cellular biology, microbiology, organic chemistry, genetics, ecology, biodiversity and evolution. Students will have the opportunity to apply their knowledge through hands-on experiments, critical thinking exercises, and collaborative projects. The course is designed to build a strong foundation of knowledge and skills in scientific inquiry and reasoning for further studies in the sciences.</p> |
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| <p>HONORS BIOLOGY (L) Length of Course: Two Trimesters Grade(s): 9 Credits: 0.5 credit per trimester Prerequisite: None</p> | <p>Honors Biology is an accelerated and enriched exploration of the fundamental principles of biology, designed for students with a strong interest in the sciences. This course explores the living world, emphasizing complex biological processes and the interconnectedness of biological concepts through a combination of engaging lectures, hands-on laboratory experiences, and interactive discussions. Students will investigate cellular biology, microbiology, organic chemistry, genetics, ecology, biodiversity and evolution. The course is designed to foster scientific inquiry, critical thinking, and a deep appreciation for the natural world. Students will connect the content and skills of each unit of study to other content areas such as art, music, engineering, social studies etc. They will also read current scientific research to deepen their understanding of biological concepts.</p> |
| <p>PRINCIPLES OF BIOMEDICAL SCIENCE (PLTW) (L) Length of course: Two Trimesters Grade(s) 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Strong Science skills recommended</p>  | <p>In Principles of Biomedical Science, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problem</p> |
| <p>EARTH SCIENCE Length of Course: Two Trimesters Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester</p> | <p>Earth Science explores topics such as the Earth system, Earth in the solar system, its history, changes in Earth's surface, natural resources, and human impacts on Earth. Students will apply their understanding through hands-on investigations, collaborative activities, research projects, and engineering activities. This course builds upon skills in scientific inquiry and reasoning established in previous courses for further studies in the sciences.</p> |
| <p>HONORS EARTH SCIENCE (L) Length of Course: Two Trimesters Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester</p> | <p>Honors Earth Science is an accelerated and enriched exploration of the fundamental principles of Earth's History and Earth's place in the Universe. This course is an advanced exploration of the interconnected systems that shape our planet through a combination of engaging lectures, hands-on laboratory experiences, and interactive discussions. Students will think critically, collaborate with peers, and develop a genuine appreciation for the dynamic processes that govern our planet. This course is designed to build the knowledge and skills to pursue further studies in the Earth sciences and to contribute meaningfully to discussions about the environmental challenges facing our world today. Students will connect the content and skills of each unit of study to other content areas such as art, music, engineering, social studies etc. They will also read current scientific research to deepen their understanding of biological concepts.</p> |
| <p>CHEMISTRY Length of Course: Two Trimesters Grade(s): 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Enrollment in Algebra 2</p> | <p>Chemistry is a course that introduces students to the fundamental principles of chemistry. This program is structured to provide a solid foundation of the structure of matter, the periodic table, chemical bonding, and the laws governing chemical reactions through theoretical understanding, hands-on experimentation, scientific inquiry and engineering design. This curriculum is designed to instill critical thinking skills, problem solving abilities, and a deep appreciation for the role of chemistry in everyday lives.</p> |
| <p>HONORS CHEMISTRY (L) Length of Course: Two Trimesters Grade(s): 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Enrollment in Algebra 2</p> | <p>Honors Chemistry is an accelerated exploration of the foundations of Chemistry, designed as a springboard to AP Chemistry. This program is structured to gain a deep understanding of the core concepts of atomic structure, periodicity, and laws governing bonding leading to more complex topics of thermodynamics and equilibrium through theoretical understanding, hands-on experimentation, and scientific inquiry. This deeper foundation equips students with the knowledge and skills essential for success in continuing the quest for more chemistry knowledge.</p> |

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| <p>HONORS PHYSICS (L) Length of Course: Two Trimesters Grade(s): 11, 12 Credits: 0.5 credit per trimester Prerequisite: Two Credits in Science and Current Enrollment in Algebra 2</p> | <p>Physics is the study of the interactions between objects. Topics include kinematics, dynamics, circular motion, energy, electricity, waves and sound. The intent of this course is to introduce students to the language and theories of physics, provide training and practice in analytic reasoning and problem solving. This course also places an emphasis on engineering design and the everyday applications of physics. Honors physics labs are designed to reinforce learning with concrete experiences.</p> <p>Students will also have the opportunity to tie in the unit of studies to other content areas such as art, music, other science, etc. They will also read scientific research currently being done by world renowned scientists and connect it to the unit of study.</p> |
| <p>PHYSICAL SCIENCE Length of Course: Two Trimesters Grade(s): 11 Credits: 0.5 credit per trimester Prerequisite: None</p> | <p>Physical Science is a course that can be taken to fulfill the third-year science requirement. It will focus on the aspects of both Chemistry and Physics. This course is designed for students who are not taking or have not yet taken Algebra II.</p> |
| <p>ASTRONOMY  Length of Course: One Trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credit Prerequisite: None</p> | <p>This is an elective 0.5 credit science course for students who wish to study topics relating 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, the solar system, the earth as a system in space, the earth/moon system, the sun as a star, and stars.</p> |
| <p>HUMAN BODY SYSTEMS (PLTW) (L) Length of course: Two Trimesters Grade(s) 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Principles of Biomedical Science (Grade of C- or better)</p>  | <p>Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal manikin; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.</p> |
| <p>AP BIOLOGY (L) Length of Course: Two Trimesters Grade(s): 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Biology or Principles of Biomedical Science</p> | <p>AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes-energy and communication, genetics, information transfer, ecology, and interactions.</p> |
| <p>AP ENVIRONMENTAL SCIENCE (L)  Length of Course: Two Trimesters Grade(s): 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Recommended grade of B or higher in Biology or Principles of Biomedical Science or 2 science credits</p> | <p>AP Environmental Science will cover the interrelationships of the natural world as outlined in the AP Environmental Science course description from The College Board. This is a rigorous, lab-based environmental course for students with an interest in our natural world. Students will investigate environmental problems and alternative solutions for resolving and/or preventing. AP Environmental Science is an interdisciplinary experience; it embraces a wide variety of topics including geology, biology, earth science, ethics, politics & international law, economics, agriculture, environmental science, sociology, chemistry, geography, and engineering. The content of the course is equivalent of a one-semester in an introductory college course.</p> |

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| <p>STRUCTURAL ANATOMY AND PHYSIOLOGY OF THE HUMAN BODY Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Biology or Principles of Biomedical Science (C or higher)</p> | <p>This course is a continuation of the one trimester high school biology course, with a focus on body structure and control. It emphasizes the structure and functions of the skeletal, muscular and nervous systems and how these systems work together to control body movements and their association with other organ systems. Structural Anatomy and Physiology is especially recommended for students planning a career in physical therapy, massage therapy, sports medicine, physical education, or any medical field. Students are not required to take Cellular Anatomy and Physiology as a prerequisite. The courses are independent of each other.</p> |
| <p>CELLULAR ANATOMY AND PHYSIOLOGY OF THE HUMAN BODY Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit Prerequisite: Biology or Principles of Biomedical Science (C or higher)</p> | <p>This course is a continuation of the one trimester high school biology course, with a focus on the systems responsible for keeping you alive. It emphasizes the structure and functions of the circulatory, respiratory, digestive, and endocrine systems and how these systems work together with other systems to maintain a stable internal environment. Students are not required to take Structural Anatomy and Physiology as a prerequisite. The courses are independent of each other.</p> |
| <p>AP CHEMISTRY (L) Length of Course: Two Trimesters Grade(s): 11, 12 Credits: 0.5 credit per trimester Prerequisite: Chemistry recommended grade of B or better and Algebra 2 recommended grade of C or better</p> | <p>AP Chemistry course provides students with a college-level foundation to support future advance coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigation, as they explore topics such as atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Students are required to complete some work over the summer.</p> |
| <p>AP STUDY HALL Length of Course: One Trimester (third trimester) Grade(s): 10, 11, 12 Credits: 0 credit Prerequisite: Enrolled in: AP Biology, AP Environmental Science, AP Chemistry</p> | <p>AP Study Hall is a single trimester course during Trimester 3 designed for students who enroll in an AP class and plan to register for an AP exam. AP Study Hall is designed as additional work time to study and prepare for their AP exam(s) in the spring.</p> |

Social Studies



GRADUATION REQUIREMENT:

See MHS Required Courses on page 20 for more information.

Social Studies are required of all students in grades 10, 11, and 12. A four year program is required if a student elects to take Human Geography and World Cultures in 9th grade.

***Seniors are required to take either AP U.S Government or Civics and an elective. In addition, ALL students must pass the Wisconsin Civics Examination as part of graduation requirements.**

| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|---|-----------------------|------------------------|------------------------|------------------------|
| World Cultures | R | | | |
| Honors Human Geography (L) | E | | | |
| World History or AP World History (L) | | R | | |
| History of Rock County and Southern Wisconsin | | E/R | E/R | E/R |
| U.S. History or AP U.S. History (L) | | | R | |
| Comparative Religions, Culture, and Philosophy | | | E/R | E/R |
| History of Warfare: Conflicts in the World | | | E/R | E/R |
| Women's Studies | | | | E/R |
| Civics or AP U.S. Government and Politics | | | | R |
| Contemporary Issues in America | | | | E/R |
| Psychology | | | | E/R |
| AP Psychology (AS) (L) | | | | E/R |
| Senior Social Studies Washington D.C. Seminar (Discovering Democracy) | | | | E/R |
| AP Study Hall | | E | E | E |

E = Elective

R = Required course for Graduation



E/R = Elective choice but fulfills graduation requirement

AP = Advanced Placement


AS = Advanced standing

L= Laude Course

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| <p>WORLD CULTURES</p> <p>Length of Course: One Trimester</p> <p>Grade(s): 9</p> <p>Credits: 0.5 credit</p> <p>Prerequisite: None</p> | <p>This course explores foundational elements of social studies, including the political, economic, physical and cultural elements of our world. Students will develop a variety of skills including map skills, primary source analysis, research skills and inquiry-based thinking.</p> |
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| <p>HONORS HUMAN GEOGRAPHY (L) </p> <p>Length of Course: One Trimester Grade(s): 9 Credits: 0.5 credit Prerequisite: Must have taken World Cultures prior</p> | <p>Students will regionally study the world, investigating how the history, landforms, cultures, governments, economies, religions and current issues affect each region. Students will develop a variety of skills necessary for success in AP World History, including primary source analysis, writing and research skills and inquiry-based thinking. This course will allow students to be automatically eligible for AP World History sophomore year.</p> |
| <p>WORLD HISTORY </p> <p>Length of Course: Two Trimesters Grade(s): 10 Credits: 0.5 credit per trimester Prerequisite: None</p> | <p>Students enrolled in World History will begin their course with the foundations of democracy and western civilization and continue to the modern era. Students will explore events and themes that have led to the development of our modern world. This course will stress government, world religions, and economics while using inquiry-based thinking, research skills and primary sources.</p> |
| <p>AP WORLD HISTORY (L) </p> <p>Length of Course: Two Trimesters Grade(s): 10 Credits: 0.5 credit per trimester Prerequisite: Honors Human Geography recommended</p> | <p>In AP World History, students will be required to engage with the dynamics of continuity and change across historical periods between 1200 BC to the present era. Students will be taught to analyze the processes and causes involved in these continuities and changes throughout history while focusing on human-environment interaction, development and interaction of cultures, state building, expansion, and conflict; the creation, expansion, and interaction of economic systems, and the development and transformation of social structures. Successful completion of this class and success on the AP test could lead to college credit for the motivated student.</p> |
| <p>HISTORY OF ROCK COUNTY AND SOUTHERN WISCONSIN</p> <p>Length of Course: One Trimester Grade(s): 10-12 Credits: 0.5 credit per trimester Prerequisite: None</p> | <p>Explore the history of Milton and Southern Wisconsin through interviews, source analysis, local research, and guest presentations. Students work to understand Milton's connection to Wisconsin and U.S. History. Students will conduct local interviews, analyze primary sources and investigate the role of Wisconsin in the history of America. Help MHS forge a working relationship with our local library, the Milton House and the Milton Historical Society.</p> |
| <p>UNITED STATES HISTORY</p> <p>Length of Course: Two Trimesters Grade(s): 11 Credits: 0.5 credit per trimester Prerequisite: None</p> | <p>United States History walks students through historical themes from the founding of the nation to today. Themes include American Character, American Identity, War and Peace, American Presidency, Economic Development, Civil Rights, and Twentieth Century Culture. Students will be introduced to a number of primary and secondary sources and learn a variety of critical thinking and inquiry skills that will help them make modern day connections to the many themes of U.S. History.</p> |
| <p>AP UNITED STATES HISTORY (L)</p> <p>Length of Course: Two Trimesters Grade(s): 11 Credits: 0.5 credit per trimester Prerequisite: AP World History or a recommended grade of a B or better in World History</p> | <p>Advance Placement United States History is designed to introduce students to the realities of post-secondary education in US History. Students will study United States history from Christopher Columbus up until the War on Terror while also honing in the skills necessary to perform well on the AP Exam in May. Students will learn how to apply content to higher-level multiple-choice questions and write with the help of documents. Students will need a strong writing background or be willing to work on their writing skills in this class. Students are required to complete some work over the summer.</p> |

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| <p align="center">COMPARATIVE RELIGIONS, CULTURE, & PHILOSOPHY </p> <p>Length of Course: One Trimester Grade(s): 11-12 Credits: 0.5 credit Prerequisite: None</p> | <p>Students hungry for an exploration of global cultures, religions, and philosophies will find this course most interesting. Religion, philosophy, and global cultural studies will be integrated into a study of the unique perspectives of the many peoples of the world. Students will also be encouraged to explore, analyze, formulate, and discuss their own deeply-held beliefs. We must try to understand various cultural perspectives if true global partnerships are to be established and maintained.</p> |
| <p align="center">HISTORY OF WARFARE: CONFLICTS IN THE WORLD </p> <p>Length of Course: One Trimester Grade(s): 11-12 Credits: 0.5 credit Prerequisite: None</p> | <p>The course examines warfare throughout human history. We will start with Ancient Greece and work our way to conflict occurring today. We will look at how wars begin, the ways in which they are fought, as well as the lasting impact that these conflicts have on our world. This course allows for students to delve deeper into content they may be passionate about as well as analyzing and understanding how countries create and resolve conflict throughout time.</p> |
| <p align="center">WOMEN'S STUDIES</p> <p>Length of Course: One Trimester Grade(s): 12 Credits: 0.5 credit Prerequisite: None</p> | <p>Women's studies is an introductory course on women's and gender issues. In this course, students will examine women's experiences throughout history in local, national and global contexts. Students will explore contemporary issues relating to women's lives as well as how these issues intersect with class, race, and gender. Discussion is an important element in this participation-based class. Students will have the opportunity to practice their critical thinking skills as they explore their own identity as well as how this topic impacts the world they live in.</p> |
| <p align="center">AP GOVERNMENT AND POLITICS: UNITED STATES (L)</p> <p>Length of Course: Two Trimesters Grade(s): 12 Credits: 0.5 credit per trimester Prerequisite: 3.0 cumulative GPA recommended Other Information: AP Government and Politics fulfills the Civics requirement</p> | <p>The advanced placement program of U.S. Government and Politics will allow students to experience a college level course in a high school setting. The demands of the course will be similar to a college course. The course will give students an analytical perspective on government and politics in the United States. We will study general concepts of U.S. politics and policies, and the students will develop a familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Emphasis will be given to 15 Supreme Court cases and 9 Founding Documents. Students are also expected to participate in "Discovering Democracy", a week-long research study in Washington D.C. Students are required to complete some work over the summer.</p> |
| <p align="center">CIVICS</p> <p>Length of Course: One Trimester Grade(s): 12 Credits: 0.5 credit Prerequisite: None Other Information: Required your Senior year, if not enrolled in AP Government and Politics</p> | <p>Civics is a course that combines the basic concepts of government with the three branches of government. It explores the rights and responsibilities of citizens in the world of politics. Students will learn about the constitution and be ready to be a more knowledgeable citizen upon completion of this course. Furthermore, students will discover the fundamental differences of the major political parties and how media, lobbyist and money influence the political process. Students will be shown how to register to vote and be active citizens in our country.</p> |
| <p align="center">CONTEMPORARY ISSUES IN AMERICA </p> <p>Length of Course: One Trimester Grade(s): 12 Credits: 0.5 credit Prerequisite: None</p> | <p>In this course, students consider a wide-range of social issues that affect the society we live in today. These issues include discrimination, reproductive rights, immigration, gun control and many more "hot topic" issues in America. Students will research a number of different perspectives and incorporate the information into class discussions, reflections and projects. Students will gain an understanding of their own beliefs as well as those around them. Students must be able to formulate fact-based opinions and convey information both verbally in class discussions and through writing. Course pairs well with Global Studies.</p> |

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| <p style="text-align: center;">PSYCHOLOGY</p> <p>Length of Course: One Trimester Grade(s): 12 Credits: 0.5 credit Prerequisite: None</p> | <p>This is a course that examines the scientific study of human behavior and seeks out the basic question, “Why do we do what we do?” while providing a general introduction to the field of psychology. Some topics that are discussed include: history and research in psychology, learning, memory, sleep and dreams, development through the lifespan, psychological disorders and the brain. This course is designed to develop an understanding of other topics in the realm of social sciences.</p> |
| <p style="text-align: center;">AP PSYCHOLOGY (AS) (L)</p> <p>Length of Course: Two Trimesters Grade(s): 12 Credits: 0.5 credit per trimester Prerequisite: 3.0 cumulative GPA recommended Other Information: Advanced Standing credit awarded at BTC</p>  | <p>AP Psychology is designed to introduce students to the systematic and scientific study of behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. This course is taught at a college level. Students who schedule this class will accept the challenge of a rigorous academic curriculum and will be highly encouraged to take the AP Psychology test in May. Knowledge or pairing of AP Statistics or Probability and Statistics and Anatomy and Physiology is highly recommended.</p> |
| <p style="text-align: center;">SENIOR SOCIAL STUDIES WASHINGTON D.C. SEMINAR (DISCOVERING DEMOCRACY)</p> <p>Length of Course: One Trimester, Third Trimester Only Grade(s): 12 Credits: 0.5 credit Co-requisite: AP Government and Politics: United States <u>or</u> Civics Pre-requisite: A C or higher in AP Us History or a B or higher in US History</p> | <p>The Social Studies Senior Washington D.C. Seminar (Discovering Democracy) is a Trimester 3 course in which students focus on post-secondary level research on an in-depth government topic. A mandatory requirement of this class is to participate on the week-long trip to our Nation’s Capital. Students will heavily research a topic/issue of choice and plan for inquisitive interviews to be conducted with politicians and/or expert scholars while in D.C.. This course will build off the curriculum of AP Government & Politics and Civics. Completion of AP Government or completion of Civics in the first or second trimester is required.</p> <p>This trip will not interfere with AP testing as it is planned for the end of May 2025.</p> <p>In order to go on the Discovering Democracy field trip students must be signed up for this class.</p> <p>For more information, please see course instructor, Mr. Jauch.</p> |
| <p style="text-align: center;">AP STUDY HALL</p> <p>Length of Course: One Trimester (third trimester) Grade(s): 10, 11, 12 Credits: 0 credit Prerequisite: Enrolled in: AP World History, AP US History, AP Psychology, AP US Government & Politics</p> | <p>AP Study Hall is a single trimester course during Trimester 3 designed for students who enroll in an AP class and plan to register for an AP exam. AP Study Hall is designed as additional work time to study and prepare for their AP exam(s) in the spring.</p> |

Special Education



***In most cases, special education classes do not meet college admission requirements.**

Enrollment in special education courses is limited to students identified at an Individual Educational Plan (IEP) evaluation meeting as having a disability that requires specially designed instruction. Enrollment in these classes is dependent upon a student's IEP as it must be documented that they will receive their specialized instruction in the special education setting. Many students in special education take courses in the regular education environment, when appropriate, with the required accommodations to meet their needs.

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| <p>ENGLISH EE Length of Course: Two trimesters Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: IEP documentation required</p> | <p>This course is designed for students who require specially designed instruction and support in understanding and using oral and written language following the <u>Essential Element Standards</u>. The course includes the study of various forms of literature: novels, short stories, nonfiction, drama, and poetry. It also includes improving writing skills: spelling, grammar, capitalization, punctuation, as well as sentence and paragraph development. The writing process – prewriting, drafting, and revision – are also addressed for development of essays, letters, and research papers. Other components of the course include: following directions, vocabulary development, critical thinking and problem solving, oral presentations, and functional activities such as completing forms, applications, and resumes.</p> |
| <p>MATH EE Length of Course: Two trimesters Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: IEP documentation required</p> | <p>This course covers basic math skills, computation, word problems, consumer and life math skills following the <u>Essential Elements Standards</u>. Material is presented on an individualized basis. The Calculator is used frequently for self-correction and to support those students with computational difficulties.</p> |
| <p>SCIENCE EE Length of Course: Two trimesters Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: IEP documentation required</p> | <p>This course is designed for students who require specially designed instruction and support in science following the <u>Essential Elements Standards</u>. Students will conduct experiments, participate in group activities, and complete a variety of individual projects.</p> |
| <p>SOCIAL STUDIES EE Length of Course: Two trimesters Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: IEP documentation required</p> | <p>In this course, students will learn a variety of social studies skills. Topics covered will include geography skills, World History, US History, Government, Citizenship, Laws/Rights, and Current Events following the <u>Essential Elements Standards</u>. The class will focus on these topics based on the students enrolled and their prior social studies classes</p> |
| <p>ACADEMIC STRATEGIES Length of Course: One, Two or Three trimesters (determined by IEP) Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: IEP documentation required</p> | <p>This course is designed to provide pre-teaching, reteaching and extra practice for skills and concepts that students are using in their general education courses. It is also designed to provide opportunities for specially designed instruction in reading, writing, or math strategies as deemed necessary per a student's IEP.</p> |
| <p>STRATEGIES FOR SUCCESS Length of Course: One, Two, or Three trimesters (determined by IEP) Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: IEP documentation required</p> | <p>This course is designed to provide specially designed instruction in functional skills that are essential for success in school and life. Skills to be taught include but are not limited to self-advocacy, task initiation, organization, self-regulation, and IEP awareness.</p> |

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| <p>SPECIAL DESIGN PHYSICAL EDUCATION Length of Course: One, Two, or Three trimesters (determined by IEP) Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: IEP documentation required</p> | <p>This is an individualized physical education program that provides physical education activities for the student who cannot participate or benefit from a regular or adapted physical education curriculum. Emphasis is placed on life, sport, and recreational activities that meet the goal requirements of the student's IEP.</p> |
| <p>FUNCTIONAL LIVING Length of Course: One, two, or three trimesters Grade(s): 9, 10, 11, 12 Credits: 0.5 credits per trimester Prerequisite: IEP documentation required</p> | <p>This course is designed to promote increased independence for life after high school. Topics of daily living skills and vocational skills will be addressed. Within the daily living focus, students will work on personal safety, hygiene, and understanding their rights. Safety procedures in the community, school, work, and home will be discussed. Healthy eating, grocery shopping, and cooking are also included. Students will also learn how to take care of their changing bodies. Embedded in this course is vocational skills training to help students identify which jobs they are interested in and build the skills needed to meet the job requirements. Students will focus on increasing both their productivity and accuracy rate when completing various tasks that include but are not limited to janitorial, delivery, sorting, filing, and assembly. During this process students will build their self-advocacy, time management, communication, and technology skills.</p> |
| <p>RECREATION AND LEISURE Length of Course: One trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credits per trimester Prerequisite: IEP documentation required</p> | <p>Recreation and Leisure is a course designed to build independent leisure skills. Students will explore various activities and learn how to implement lifetime hobbies. Various opportunities will be provided that include crafts, games, reading books and watching content for enjoyment, yoga, meditation, woodworking, weightlifting, personal reflection, etc.</p> |
| <p>CAREER AND COMMUNITY PATHWAYS Length of Course: One trimester Grade(s): 9, 10, 11, 12 Credits: 0.5 credits per trimester Prerequisite: IEP documentation required.</p> | <p>Career and Community Pathways focuses on community-based transition outcomes that lead to a high quality of life in employment, independent living, and community participation. Students will receive 20-30 minutes of daily instruction and then have time to apply skills in a variety of environments across district buildings and other community locations. Instruction will be centered around the following topics: • Employment within the community • Independent and daily living skills • Transportation and mobility within their community • Social skills across environments • Self-determination and self-advocacy skills • Community recreation and leisure • Adult service agency involvement</p> |
| <p>SOAR ACADEMY (BEYOND AGE 18) Length of Course: Dependent on IEP Grade(s): 12+ Credits: 0.5 credits per trimester Prerequisite: IEP documentation required</p> | <p>Designed to bridge the gap between high school and adult life, the S.O.A.R Academy focuses on community based transition outcomes that lead to a high quality of life in employment, independent living, and community participation. Students will receive 20-30 minutes of daily instruction and then have time to apply skills in a variety of environments across district buildings and other community locations. Instruction will be centered around the following topics:</p> <ul style="list-style-type: none"> ● Employment within the community ● Independent and daily living skills ● Transportation and mobility within their community ● Social skills across environments ● Self-determination and self-advocacy skills ● Community recreation and leisure ● Adult service agency involvement <p>Following their time in the academy, students will have the remainder of their day to connect with community agencies and participate in same age peer activities. These opportunities will be set up through guardians and outside agencies.</p> |

Tutoring



| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|---|-----------------------|------------------------|------------------------|------------------------|
| Tutor at Northside | | | E ◊ | E ◊ |
| Peer Tutor/Mentor for Support For Success (L) | | | E ◊ | E ◊ |
| Special Education Tutor | | | E ◊ | E ◊ |

E = Elective R = Required course for graduation ◊ = See description for additional information L= Laude Course

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| <p>TUTOR AT NORTHSIDE Length of Course: One Trimester, Two trimesters, or Three Trimesters Grades: 11, 12 Credits: 0.5 credit per trimester Prerequisite: Counselor Approval, Strong attendance is required Students must have a 2.5 GPA or better</p> | <p>Students selected to participate in this program will receive credit for tutoring 5th grade students at Milton Northside Intermediate School during first period. Students must provide their own transportation to and from NIS. Strong attendance is required.</p> |
| <p>Peer Tutor/Mentor for Support For Success (L) Length of Course: One, Two or Three Trimesters Grades: 11, 12 Credits: 0.5 credit per trimester Prerequisite: Counselor Approval, Strong Attendance is required Students must have a 2.5 GPA or better</p> | <p>Students will be trained in concepts of peer tutoring and will be assigned to an underclassmen student to tutor in all academic areas. Tutoring will take place during the regular school day and is supervised and supported by an instructor at all times. Students will earn both a grade and a credit for the trimester(s) they commit to.</p> |
| <p>SPECIAL EDUCATION TUTOR Length of Course: One Trimester, Two trimesters, or Three Trimesters Grades: 11, 12 Credits: 0.5 credit per trimester Prerequisite: Teacher recommendation</p> | <p>Students who participate in this program will receive credit for assisting students with disabilities. Options include working in academic courses, Specially Designed Phy Ed, Adaptive Technology, Lunch, Daily Living, Vocational Skills, or in the Specialized Support Center. See your counselor if interested.</p> |

Workplace Education



| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|---|-----------------------|------------------------|------------------------|------------------------|
| iCadet Program Computer Service | | E ◇ | E ◇ | E ◇ |
| Youth CO-OP | | | E ◇ | E ◇ |
| Youth Apprenticeship | | | E ◇ | E ◇ |

E = Elective

R = Required course for graduation

E/R = Elective choice but fulfills graduation requirement

◇ = See description for additional information

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| <p>iCADET PROGRAM COMPUTER SERVICE Length of Course: One Trimester, Two Trimesters or Three Trimesters Grade(s): 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: Introduction to Computer Science <u>or</u> Computer Programming <u>or</u> Cybersecurity (PLTW) Completed application and interview</p> | <p>This course provides an opportunity to be a student leader in technology by becoming a member of the help desk team within the Technology Department. iCadets will have an opportunity to develop technology customer service, diagnosis and repair skills, as well as learn the fundamentals of how a technology department operates. Daily experiences include answering questions, troubleshooting, and guiding staff and students through technology support requests. iCadets are sought out by staff and other students for their knowledge and skill, and success in this program provides practical experience for developing a resume.</p> <p>Application and interview are required. Limited spaces available.</p> |
| <p>YOUTH CO-OP Length of Course: One Trimester, Two Trimesters or Three Trimesters Grade(s): 11, 12 Credits: 0.5 credit per trimester Prerequisite: Completed application</p> | <p>Students accepted into this program will participate in a school certified Co-op.</p> <p>The Co-op program is either a local Co-op through Milton High School or can also be a State Certified Co-op through the Wisconsin Department of Public Instruction.</p> <p>Details and applications will be available in the student services office. For questions, see Mrs. Amy Kenyon.</p> <p>For more information on what jobs qualify for a Youth Co-Op please see the below link: https://dpi.wi.gov/cte/skills-standards/employability</p> <p>Completed Application required. Students must see Ms. Kenyon. See page 15 for more information.</p> |
| <p>YOUTH APPRENTICESHIP Length of Course: One Trimester, Two Trimesters or Three Trimesters Grade(s): 11, 12 Credits: 0.5 credit per trimester Prerequisite: Completed application</p> | <p>Students accepted into this program will participate in a state certified Youth Apprenticeship program with a local business.</p> <p>The Youth Apprenticeship program is administered by the Wisconsin Department of Workforce Development and may offer the possibility for students to bridge to a registered apprenticeship after graduation.</p> <p>Details and applications will be available in the student services office. For questions, see Mrs. Amy Kenyon.</p> <p>For more information on what jobs qualify for a Youth Apprenticeship please see the below link: https://dwd.wisconsin.gov/apprenticeship/ya/skills-checklists.htm</p> <p>Completed Application required. Students must see Ms. Kenyon. See page 15 for more information.</p> |

World Language


***A STUDENT MUST PASS 1ST TRIMESTER TO CONTINUE IN 2ND TRIMESTER OF ANY WORLD LANGUAGE.**

World Languages Department Policy: If the prerequisite is not met for any of the classes below in the World Language Department, the student *must* repeat the entire year and meet the grade requirement to advance to the next level. A placement test may be used with transfer students and heritage speakers. The test will be administered by a member of the student services department and evaluated by the World Language Department to assist in the student's appropriate placement within the Milton High School program.

| Course Title | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|--|-----------------------|------------------------|------------------------|------------------------|
| Spanish in the Medical Field | | | E | E |
| Spanish 1 | E | E | E | E |
| Spanish 2 | E | E | E | E |
| Spanish 3 | | E | E | E |
| Spanish 4 | | | E | E |
| Spanish 5 (L) | | | | E |

E = Elective R = Required course for graduation E/R = Elective choice but fulfills graduation requirement AP = Advanced Placement L= Laude Course

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| <p>SPANISH IN THE MEDICAL FIELD Length of Course: One Trimester Grade(s): 11, 12 Credits: 0.5 credit per trimester Prerequisite: C- in 2nd trimester of Spanish 2</p> | <p>This course is designed for those students going into the Medical Field, but not taking the full Spanish curriculum. This course will introduce the vocabulary and cultural understanding necessary to engage in successful Spanish communication in the medical field. The course will entail real-life application and practice. This course is not considered a world language for college admission.</p> |
| <p>SPANISH 1 Length of Course: Two Trimesters Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: None</p> | <p>The first-year student acquires basic grammar skills. All modes of communication reading, writing, speaking and listening are addressed. Throughout the year, the student receives a panoramic view of the life and customs of Spanish-speaking people.</p> |
| <p>SPANISH 2 Length of Course: Two Trimesters Grade(s): 9, 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: C- in 2nd trimester of Spanish 1</p> | <p>Students build on skills gained during Spanish I. Students read short stories, write compositions and analyze video clips in Spanish, as well as add to their grammatical skills.</p> |
| <p>SPANISH 3 Length of Course: Two Trimesters Grade(s): 10, 11, 12 Credits: 0.5 credit per trimester Prerequisite: C- in 2nd trimester of Spanish 2</p> | <p>This course is taught primarily in Spanish. The students participate in a variety of activities. Proficiency in the language is the goal. Vocabulary acquisition and mastery of grammar are integral parts of the course. Students also read more complex stories, write journals, and give oral presentations in the target language.</p> |

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| <p style="text-align: center;">SPANISH 4</p> <p>Length of Course: Two Trimesters Grade(s): 11, 12 Credits: 0.5 credit per trimester Prerequisite: C- in 2nd trimester Spanish 3 <i>or</i> instructor consent</p> | <p>This course is taught in Spanish and continues to develop the topics and skills taught in Spanish III. An emphasis is placed on oral language development and interpreting meaning from written and oral language. Students will demonstrate knowledge through discussions, papers and presentations.</p> |
| <p style="text-align: center;">SPANISH 5 (L)</p> <p>Length of Course: Two Trimesters Grade(s): 12 Credits: 0.5 credit per trimester Prerequisite: B- in 2nd trimester of Spanish 4 or Advanced Spanish Foundations (2024-2025) <i>or</i> instructor consent Other: \$315 fee for 3 college credits (\$105 per credit). Students who receive a C or higher may receive up to 5.5 retroactive credits from UW Green Bay for no additional costs. Students who receive a B or higher may receive up to 11 retroactive credits from UW Green Bay for no additional costs.</p> <div style="text-align: center;">  <p>UNIVERSITY of WISCONSIN GREEN BAY</p> </div> | <p>This advanced course is designed for students who plan to attend college and take advanced courses in Spanish. Proficiency and accuracy in the language are stressed as students develop aural/oral skills, reading comprehension, and composition/essay writing skills. Advanced grammatical topics are systematically studied, and literature from throughout the Spanish-speaking world will be included in this course.</p> <p>Students can opt to take this course for 3 college credits through UW Green Bay. Students are responsible for the tuition costs of \$315 (\$105 per credit). Students who earn a C or higher may receive up to 5.5 retroactive credits from UW Green Bay for no additional costs. Students who earn a B or higher may receive up to 11 retroactive credits from UW Green Bay for no additional costs.</p> |