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FOREWORD

ADMINISTRATION

Jim Darin - Principal
Colleen Hoyne - Associate Principal
Louis S. Pawela - Associate Principal
Andy Trudell - Activities Director
Dustin Lehman – Career & College Readiness Coordinator
Sarah Dianich – Dean of Students

GUIDANCE & COUNSELING DEPARTMENT

Counselor’s assignments are as follows:

Tim Kujawa Last names A-FL
Carla Brenton Last names FO-LA
Jay Christiansen Last names LE-RO
Paige Patenaude Last names RU-Z
INTRODUCTION

The purpose of this Course Catalog is to provide information you need to plan your high school program of studies. Mukwonago High School offers a wide variety of course selections in grades 9-12 which are intended to stimulate and develop your interests and abilities. You will be confronted with many important decisions concerning the courses you select during your four high school years. What you do during these years will determine the extent of your participation in advanced schooling or the jobs you are eligible for upon graduation.

This catalog has been prepared with you and your parents in mind. It should help you plan your course selections for each year you are at MHS. Many courses are offered in sequential order and their selection must be viewed in relationship to a 4-year program. Careful planning of your program of studies should provide meaningful experiences as you progress through high school.

STUDENT RESPONSIBILITY IN PROGRAM SELECTION

As a student, you are the one who benefits or loses in the educational process. How well you perform during your four year high school experience can have a profound influence on your success as an adult. In a larger context, what you achieve in high school may affect your family, community and the nation.

In order for each student to gain a purposeful and meaningful education, he/she must make a commitment to the work involved in completing the educational sequence.

PARENT RESPONSIBILITY IN PROGRAM SELECTION

We cannot over emphasize the importance of your support and approval of your son's/daughter's course selections. Students often need to rely upon the advice of more experienced and trusted adults. Take the time to talk about your son or daughter's goals and aspirations. With your special understanding of his or her particular strengths, you are in an excellent position to help make reasonable, worthwhile, and attainable decisions.

COUNSELING SERVICES TO ASSIST STUDENTS & PARENTS IN PROGRAMMING

The primary goal of counseling is to help each student obtain the best possible education from his/her four years in high school. To promote this objective, counseling services try to help each student:

1. Understand oneself and discover one's strengths and weaknesses.
2. Make plans for career choices and post-secondary education.
4. Develop the ability to make decisions and to assume the responsibility for these choices.
5. Accept social responsibility by developing one's potential for contributing to society.
6. Live a richer and more satisfying life by recognizing the relationship between scholastic accomplishment and the future.

The counseling department has a special responsibility in providing assistance and information about proper course selection. Planned activities can help parents and student select courses. However, you are welcome any time and should feel free to see your counselor whenever there is a need. Please see “Counseling” on the MHS website for all of our Counseling assistance areas.
SCHEDULING POLICIES

1. Students will be given the opportunity to select their courses for the upcoming year in the preceding school year.
2. Parent(s) must review and approve or disapprove of their son/daughter’s course selection.
3. The counselors may make recommendation regarding the student's course selections based upon the student's past academic performance, test results, potential ability and career aspirations.
4. Once course selections are made and approved by all designated parties (student, parent, counselor), a charge of $10.00 will be made for any schedule changes thereafter. Changes without charge will be made only if:
   - A failure has occurred during the registration year;
   - Medical recommendations;
   - Counselor and/or instructor recommendations;
   - Computer error (i.e. course overload or conflict in meeting times).

If a student must be dropped from a class during the course of a semester for reasons other than the above, he/she will be dropped with the semester grade of "F".
5. Students must follow pre-requisite policies and pass previous courses in course sequence situations.
6. The minimum number of students needed to be enrolled in a course to insure that it will be offered in the upcoming school year is 15. Any course with an enrollment of less than 15 requires Board of Education approval before it will be offered.
7. Students receiving a grade of "C" or better in high school courses offered in the eighth grade (e.g., Spanish) may not register for the same course at the high school level.
8. A full time student must be enrolled in a minimum of 6.5 credits. By school board policy, seniors can get an exception to this 6.5 credit rule.
9. Once school is in session the Administration reserves the right to make schedule changes due to section overcrowding.

SCHEDULE CHANGES

The scheduling process for each school year begins at the end of the previous January, when students get their course selection information. In the process, students are asked to revisit their four year plan, review prerequisites, contemplate both required courses as well as electives, think about their academic and career plan (college requirements, career prep courses, etc), and make some logical decisions. Within this few week process, they are asked to confer with their current teachers, make an appointment with their school counselor if they need assistance, and get the approval of their final course decisions from their parents. Once they have addressed their decisions from all angles, students take the step of inputting their parent approved choices in to our course selection computer software. In late March, the school district will make course offering decisions, section count decisions, and staffing decisions based on all the course selections that all our students have made. Once this step has occurred, all course selection changes requested by students will be assessed a $10 change fee. Final schedules for each student will be put together in the months that follow, so all students will have their new schedules available to them by mid-August. Again, any selection changes that students would make at this time would be charged a $10 change fee. Schedule change request forms are available on the website or in the Counseling Office.

Sometimes a student will not get each course they requested (examples: too many students signed up for a particular course, or course isn’t offered because not enough students signed up for it, two of their course selections are offered only at the exact same hour, they didn’t meet the prerequisite, etc.) so they receive one of their alternate selections on their schedule instead. This possible scenario puts a big emphasis on making sure to choose some alternates wisely.

Occasionally there may be a reason that pops up where a schedule will need to be adjusted before the school year begins that is considered an extenuating circumstance – some examples: a computer error, a student completed a summer course that impacts their previous selections, an unexpected failure of a semester two prerequisite course, a medical problem has come up that precludes their ability to take a PE course, etc. In these types of extenuating circumstances there is not a $10 change fee.
Graduation Requirements

Beginning with the 18-19 school year, Mukwonago High School transitions to a new schedule of 8 total periods, with 5 block classes rotating each day. With this new schedule, the Board of Education will be implementing a gradual credit requirement transition system, based upon when each student’s class is scheduled to graduate.

Class of 2019 – 24.0 credits to graduate
Class of 2020 – 25.0 credits to graduate
Class of 2021 – 26.0 credits to graduate
Class of 2022 and beyond – 27.0 credits to graduate

In addition to the base number of credits to graduate, the following are specific course requirements:

**Required - total of 15.0**

**English: 4.0 credits**
- Grade 9: 1 credit (Freshman English, or Honors Freshman English)
- Grade 10: 1 credit (Sophomore English, or Honors Sophomore English)
- Grade 11: 1 credit (Junior English or AP Eng Lang & Comp)
- Grade 12: 1 credit (see English Dept. course descriptions and flow chart for options)

**Social Studies: 3.0 credits**
- Grade 9: 1 credit (Am Govt/Free Ent Sys, or Honors Am Govt./Free Ent Sys)
- Grade 10: 1 credit (World History, or AP World History)
- Grade 11 or 12: 1 credit (US History, or AP US History)

**Science: 3.0 credits**
- Grade 9: 1 credit (Biology, or Honors Biology)
- Grade 10: 1 credit (Found of Phys/Chem, Chemistry, or Honors Chemistry)
- Grade 11 or 12: 1 credit (see Science Dept. course descriptions and flow chart for options)

**Math: 3.0 credits**
- Math options based on ability and pre-requisites. See Math Dept. course descriptions and flow chart for options

**Physical Education: 1.5 credits (3 semesters)**
- See PE Dept course descriptions and flow chart for options.

**Health: .5 credit**

For the graduating Class of 2021 and beyond, an additional **1.0 required credit:**

**Financial Literacy: .5 credit**
- Personal Finance is recommended to be taken in Grade 11 for ACP purposes. See course description on page 25.

**Career & Technical Education/Fine Arts: .5 credit**
- A semester course, taken at any grade level, in one of these areas meets the requirement:
  - Business, Family & Consumer, Tech Ed, Comp Sci, Music, Art, or Drama

**Electives:**
All other courses are considered electives for graduation purposes. Students must combine required credits with all other credits taken to reach your total number of credits needed to satisfy the graduation requirement. Electives can be regular academic classes or any other curriculum area, and should be chosen based on your Academic and Career Planning (ACP) process.

Under our new MHS schedule, all students must take a minimum of 6.5 credits each school year.

Co-op students, apprenticeship students, or Course Options students may get approval for a shortened day if their school approved ACP plan calls for it, but only for approved career or educational experiences. Each hour of the schedule must be approved. Early dismissal or late arrival, for seniors only, must be approved at the beginning of each semester, and only in lieu of a study hall.
College Credit Courses in Career and Technical Education

Students at Mukwonago High School can earn credits toward their high school diploma and credit for college. Articulation agreements with WCTC allow students taking high school classes to earn college credit. These agreements allow students to bypass beginning equivalent college courses and complete more advanced work, saving both time and tuition costs. Transcribed credit allows students to earn the same grade they earn in the high school course in the college course.

<table>
<thead>
<tr>
<th>MHS Course #</th>
<th>MHS Course Name</th>
<th>WCTC Equivalent Course</th>
<th>Classification</th>
<th>WCTC Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>126A + 126B</td>
<td>Financial Accounting (TC) (Year)</td>
<td>101-111 Accounting I Principles</td>
<td>TC</td>
<td>4</td>
</tr>
<tr>
<td>1289A + 1289B</td>
<td>Integrated Accounting (TC) (Year)</td>
<td>101-113 Accounting II Principles</td>
<td>TC</td>
<td>4</td>
</tr>
<tr>
<td>326A + 326B</td>
<td>Childcare/Fashion Co-op (TC) (Year) - see Course Catalog</td>
<td>307-174 Early Childhood Education Practicum I</td>
<td>TC</td>
<td>3</td>
</tr>
<tr>
<td>332 + 304</td>
<td>Human &amp; Child Care Services (TC) (Sem) and Child Guidance (Sem)</td>
<td>307-148 Foundations of Early Childhood Education</td>
<td>TC</td>
<td>3</td>
</tr>
<tr>
<td>339</td>
<td>Interior Design (TC)</td>
<td>304-100 Principles of Interior Design</td>
<td>TC</td>
<td>3</td>
</tr>
<tr>
<td>340A + 340B</td>
<td>Foodservice &amp; Hospitality Co-op (TC) (Year) - see Course Catalog</td>
<td>316-110 Applied Food Service Sanitation</td>
<td>TC</td>
<td>1</td>
</tr>
<tr>
<td>341</td>
<td>Culinary Skills (TC) (Sem)</td>
<td>316-115 Nutrition for the Culinarian</td>
<td>TC</td>
<td>3</td>
</tr>
<tr>
<td>328</td>
<td>Baking &amp; Culinary Arts (TC) (Sem)</td>
<td>TBD</td>
<td>TC</td>
<td>TBD</td>
</tr>
<tr>
<td>3370</td>
<td>Intro to Health Professions (TC) (Sem)</td>
<td>539-100 Intro to Health Professions</td>
<td>TC</td>
<td>3</td>
</tr>
<tr>
<td>147T</td>
<td>Medical Terminology (TC) (Sem)</td>
<td>501-101 Medical Terminology</td>
<td>TC</td>
<td>3</td>
</tr>
</tbody>
</table>

**Family, Consumer Science, and Health Science Courses**

**Business & Marketing Courses**

**Technical Education Courses**

<table>
<thead>
<tr>
<th>MHS Course #</th>
<th>MHS Course Name</th>
<th>WCTC Equivalent Course</th>
<th>Classification</th>
<th>WCTC Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3499A + 3499B</td>
<td>Auto Service Technology II (Year) - Jr/Sr Years, 5 MHS credits and acceptance in AYES Auto Tech. Youth Apprentice program - see course catalog.</td>
<td>WCTC Credits: Varies</td>
<td>CPL</td>
<td>Varies</td>
</tr>
<tr>
<td>361A + 361B</td>
<td>Building Trades (TC) (Year)</td>
<td>475-316 Carpentry I</td>
<td>TC</td>
<td>2</td>
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<tr>
<td></td>
<td></td>
<td>475-318 Carpentry III</td>
<td>TC</td>
<td>2</td>
</tr>
<tr>
<td>375</td>
<td>Machine Tool I (Sem)</td>
<td>420-320 Machine Tool Operation 1A</td>
<td>CPL</td>
<td>2</td>
</tr>
<tr>
<td>377</td>
<td>Machine Tool II (Sem)</td>
<td>420-320 Machine Tool Operation 1B</td>
<td>CPL</td>
<td>2</td>
</tr>
</tbody>
</table>

**Auto Service Technology I** will have an Advanced Standing opportunity at WCTC. For more information on Advanced Standing, please reference the Careers Pathways in the Course Catalog.

**Auto Service Technology 1 (Year)**

**PLTW Courses** Will allow the student to earn college credit at a number of universities. By earning a passing score on the End of Course Assessment (EOC) a student can submit for college credit. Because of the number of options available, please see your course instructor or counselor for more details on how to take advantage of this great opportunity.

**Project Lead the Way: Principals of Biomedical Science (Year)**
**Project Lead the Way: Human Body Systems (Year)**
**Project Lead the Way: Computer Integrated Manufacturing (Year)**
**Project Lead the Way: Intro to Engineering Design (Year)**
**Project Lead the Way: Principles of Engineering (Year)**
**Project Lead the Way: Digital Electronics (Year)**
HONORS COURSES

Mukwonago High School offers Honors level courses in English, math, science, and social studies. The design of an Honors level course is to challenge the student to think, reason, debate, write, and perform at a higher than average level. Interest in the subject matter and strength of intellect and ability in that particular curriculum area can help determine if the Honors level course is appropriate. Past performance in the curriculum area is only a small component of what should be considered. We take the philosophy that we want our students encouraged to take the Honors level course(s) if they feel they can meet the responsibility of higher expectations, additional outside homework, and will be an asset to the higher level discussions in the classroom. Students who earn a D+ or lower at the semester may be asked to drop to the regular level of the course for second semester.

AP COURSES

Mukwonago High School has an Advanced Placement program. Students who participate in Advanced Placement courses must have: superior grades in prerequisite courses, interest level in the subject, a high degree of self-motivation, and the ability to learn independently.

An AP course, by providing the student access to a subject taught on a college level at Mukwonago High School, can prepare him/her to take an AP exam in the spring. The expectation is that he/she will plan to take the test at a cost of $97.00 per exam. Registration and fee will be due in February of the testing year through the site www.totalregistration.net AP/50190. Students who are eligible for free or reduced lunch will have their AP exam fees paid by the district (Senate Bill 249).

ADVANCED PLACEMENT ACADEMIC COURSES

Advanced Placement courses which may earn high school students college credits are:

- AP American Government
- AP Art History
- AP Biology
- AP Computer Science A
- AP Computer Science Principles
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP English Language & Comp
- AP English Lit. & Comp
- AP Environmental Science
- AP Human Geography
- AP Macroeconomics
- AP Psychology
- AP Seminar
- AP Statistics
- AP Physics I
- AP Physics II
- AP U.S. Government
- AP U.S. History
- AP World History

For more information, contact the Counseling Center.
## AP Course Planning Guide

<table>
<thead>
<tr>
<th>APAP</th>
<th>Freshman Year</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine Arts</td>
<td></td>
<td>• AP Art History</td>
<td>• AP Art History</td>
<td></td>
</tr>
<tr>
<td>English</td>
<td></td>
<td>• AP English Language and Composition</td>
<td>• AP English Literature and Composition</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>• AP Statistics</td>
<td>• AP Computer Science</td>
<td>• AP Computer Science</td>
<td>• AP Computer Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• AP Calculus AB</td>
<td>• AP Calculus BC</td>
<td>• AP Calculus AB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• AP Statistics</td>
<td>• AP Statistics</td>
<td>• AP Statistics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• AP Computer Science Principles</td>
<td>• AP Computer Science Principles</td>
<td>• AP Computer Science Principles</td>
</tr>
<tr>
<td>Science</td>
<td></td>
<td>• AP Biology ¹</td>
<td>• AP Biology ¹</td>
<td>• AP Biology ¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• AP Chemistry ¹</td>
<td>• AP Chemistry ¹</td>
<td>• AP Chemistry ¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• AP Environmental Science</td>
<td>• AP Environmental Science</td>
<td>• AP Environmental Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• AP Physics 1</td>
<td>• AP Physics 1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>Social Studies</td>
<td>• AP Human Geography</td>
<td>• AP Human Geography</td>
<td>• AP Human Geography</td>
<td>• AP Human Geography</td>
</tr>
<tr>
<td></td>
<td>• AP World History</td>
<td>• AP World History</td>
<td>• AP World History</td>
<td>• AP World History</td>
</tr>
<tr>
<td></td>
<td>• AP Macroeconomics (semester)</td>
<td>• AP US History</td>
<td>• AP US History</td>
<td>• AP US History</td>
</tr>
<tr>
<td></td>
<td>• AP American Gov’t.</td>
<td>• AP Psychology</td>
<td>• AP Psychology</td>
<td>• AP Psychology</td>
</tr>
<tr>
<td>Interdisciplinary</td>
<td></td>
<td>• AP Macroeconomics (semester)</td>
<td>• AP Macroeconomics (semester)</td>
<td>• AP Macroeconomics (semester)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• AP American Gov’t.</td>
<td>• AP American Gov’t.</td>
<td>• AP American Gov’t.</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• AP Seminar</td>
</tr>
</tbody>
</table>

¹AP Biology and AP Chemistry are taught over two class periods each day

*Most AP courses require prerequisite coursework. Check with your course catalog and the course instructor for more information.

For info about AP courses, visit: [http://goo.gl/HyU6uG](http://goo.gl/HyU6uG)
To explore different school’s AP credit policy, visit: [http://goo.gl/Avxzw3](http://goo.gl/Avxzw3)
WHY TAKE AN ADVANCED PLACEMENT EXAM?

There are a number of reasons why a student would choose to take an Advanced Placement Examination at the end of their AP course:

+ AP exams provide a rare chance to certify a year of your academic life and find out how well you do on one of the most carefully developed examinations you will ever encounter.

+ When you qualify for placement into advanced courses through the AP Program, you can avoid repeating the same course material. Instead you will be able to take new and challenging courses as an entering freshman.

+ Unlike most other placement tests, you may be awarded college credit for your performance on AP examinations. When you receive college credit a number of additional options may be available to you in college. You can:

  1. Enroll in intriguing courses in other disciplines without adding to your course load,
  2. Enter honors programs,
  3. Cut back on course work during a semester of heavy reading or lab work,
  4. Facilitate the opportunity for a double major,
  5. Take graduate courses while an undergraduate,
  6. Change your major without staying in college longer.
  7. Complete your undergraduate degree in less time.

+ College costs can be reduced. The greatest savings, up to $22,000, occur when you receive credit for one year of college work because you have received a qualifying grade on three or more AP examinations. (This can also mean starting a job and earning income a year earlier.) More typically, candidates take one or two AP exams, but this can lead to a reduction in the usual four year requirement, especially if combined with extra courses during the year or summer. AP credit is one of the least expensive college credit you can receive. Three to six semester hours of credit can be obtained for one AP examination (that receives a qualifying score).

+ AP examination grades are kept on file by the College Board. Therefore, you can bank your AP results and withdraw them easily at any time. One time when you will be glad to have your AP grades available is if you transfer to another college: because AP grades are so widely accepted they may be easier to transfer than certain college courses.

+ Grades earned in AP courses may help in the college admission process by improving the look of your transcript

Note: each university treats AP credits differently. It is the students’ responsibility to research this.

RANK IN CLASS

Schools rank each student's academic progress in relation to other students' progress. In order to do this, the letter grades must be converted to a point system. The G.P.A. is based on a four-point system where A=4 points, B=3 points, C=2 points, D=1 point and F=0 points. This point system is used to determine the student's rank (position by grades earned) in their class in relation to their classmates.
NCAA INITIAL-ELIGIBILITY

This course meets NCAA Initial Eligibility core course requirements. To see the most up to date NCAA requirements please click [here](http://www.ncaa.org).

Any students planning to play NCAA Div 1 or Div II athletics in college need to be approved through the NCAA Eligibility Center. Go to [http://www.ncaa.org](http://www.ncaa.org) and click on the link “Play College Sports”. You will find eligibility rules, recruitment rules, and the process you will need to go through to gain your college athletic eligibility for either Div 1 or Div II. Because the restrictions revolve around GPA, ACT scores, and your transcript of high school NCAA required course from the MHS list of NCAA approved courses, make sure to take this responsibility seriously.

EXAMINATIONS-SEMESTER / FINAL

Semester/final examinations are given at the end of each semester for all courses. The amount that the final exam grade counts toward the semester grade is 20%.

Exams are given on the day designated by the examination schedule unless school is canceled on the day of the examination or a modification has been made by the administration. A time period for make-up of semester/final exams is established for each examination period.
The Global Education Academic Certificate program, authorized through Wisconsin's Department of Public Instruction, is open to all Mukwonago students who want to learn more about cultures within our global community. Participating students will be teamed up with a "global mentor" to navigate the course requirements and independent study, service and cultural experience requirements. Candidates who complete the GEAC program show colleges and employers that they are ready to participate in a globally connected world. These candidates will be recognized at graduation and the senior awards banquet and will receive a certificate from Wisconsin's Department of Public Instruction. To receive the Global Education Achievement Certificate, candidates will need to complete eight credits from the list below earning a GPA of a 3.0 in those courses. Six credits must be earned from the Required Course list while two credits must be earned from the Elective Courses list. Other requirements include a presentation to an audience showing your growth and documenting your experience in the Global Education program.

<table>
<thead>
<tr>
<th>Required Courses (5 Credits)</th>
<th>Elective Courses (3 Credits) (* represents ½ credit course)</th>
<th>Cultural Literacy</th>
<th>Cultural Citizenship</th>
<th>Service Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 4 credits of a foreign language</td>
<td>• AP Art History</td>
<td>Each Candidate shall complete independent reviews/ reflection on at least eight (8) works of international/ cultural media, including at least four books (fiction and non-fiction). Other international/ cultural media may include films, music, and art exhibitions.</td>
<td>Actively participate and document your experience in at least four co-curricular and other school endorsed activities in grades 9-12. Activities may include:</td>
<td>A global/ crosscultural public service project is required, involving at least twenty (20) hour of works, connected to a global community (different from his/her own) or to a global issue. Students are expected to take a leadership role in organizing the project.</td>
</tr>
<tr>
<td>• World History or AP World History</td>
<td>• Concert History</td>
<td>*Suggested - Read one book a year</td>
<td>*Submit a summary report detailing the successful completion of project</td>
<td></td>
</tr>
<tr>
<td>• 5th credit of a foreign language can be added</td>
<td>• Emerging Nations*</td>
<td>*Discuss book/ experience w/ mentor</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Senior English or College English 12</td>
<td>• Write a Reflection showing growth in your global understanding</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Geology*</td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>• Global Foods*</td>
<td></td>
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<td></td>
<td>• Global Marketing &amp; Culture*</td>
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<td></td>
<td>• History of Russia &amp; Asia*</td>
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<tr>
<td></td>
<td>• World Perspectives in Literature</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>• AP Human Geography</td>
<td></td>
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<tr>
<td></td>
<td>• Journalism</td>
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<td>• Orchestra</td>
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<td>• World Geography*</td>
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For additional information see the Global Certificate website at montama.wix.com/globalcertificate
FOUR YEAR HIGH SCHOOL PROGRAM PLANNING GUIDE

List in the appropriate semester and year, those courses you have successfully completed and/or plan to enroll in, in order to meet your individual needs and established graduation requirements.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>COURSE #</th>
<th>COURSE TITLE</th>
<th>SEM CREDIT</th>
<th>COURSE #</th>
<th>COURSE TITLE</th>
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**TOTAL**

Total credits (earned/enrolled) for the year _____

### SOPHOMORE YEAR

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<tr>
<th>COURSE #</th>
<th>COURSE TITLE</th>
<th>SEM CREDIT</th>
<th>COURSE #</th>
<th>COURSE TITLE</th>
<th>SEM CREDIT</th>
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</tbody>
</table>

**TOTAL**

Total credits (earned/enrolled) for the year _____
IMPORTANT: If you failed any required courses during your freshman or sophomore year, and have not made them up, do not forget to sign up to retake these course(s).

**JUNIOR YEAR**

| SEMESTER I | | SEMESTER II |
|------------|------------------|
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| TOTAL      |                  | TOTAL      |

Total credits (earned/enrolled) for the year ____

**SENIOR YEAR**

| SEMESTER I | | SEMESTER II |
|------------|------------------|
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| COURSE #   | COURSE TITLE     | SEM CREDIT |
| TOTAL      |                  | TOTAL      |

Total credits (earned/enrolled) for the year ____
Academic and Career Planning

What IS an Academic and Career Plan?

Academic and Career Planning, or ACP, is a student-driven, adult-supported process in which students create and cultivate their own unique and information-based visions for post secondary success, obtained through self-exploration, career exploration, and the development of career management and planning skills. Our MHS guidance team provides a variety of opportunities at each grade level leading to a career path, and the educational plan it requires, that is individualized to each student and their interests and abilities.

What is the MHS ACP based on?

The MHS ACP model is based on the 16 Wisconsin Career Clusters. A Career Cluster is a group of careers that fall under the same umbrella; for example, Health Sciences which includes everything from Medical Diagnostics to Nursing to Phlebotomist. This allows students to explore a broader area they might be interested in and see all careers related to that area without having to identify a specific occupation. Essentially all career possibilities can be found within one of the 16 Wisconsin Career Clusters. To learn more about these career clusters click here: http://www.wicareerpathways.org

How does ACP affect my course choices at MHS?

Our MHS students are very fortunate in that we have courses available that are specific in content to each of the 16 Career Clusters. We have taken the time to break down each of the clusters and the MHS courses that correlate with them. Keep in mind that some courses may fall under multiple Career Clusters. These clusters are intended to help students further explore the career paths they may be interested in, or to discover a possible career path if they are uncertain of their future plans. These courses are recommendations only and are not required. Please also keep in mind your graduation and college requirements as you make your course selections, as well as the value of fine arts, foreign language, and other electives.

Each MHS student has their own Career Cruising account to help them navigate their own ACP process. They will find Career Cruising under Family Login, on the MHS website, and they use their Google account information to login.
As a top Wisconsin high school, our students can choose to be prepared to attend a college or university, attend a technical college, go directly to the military, earn a trade, or take an entry level position in the workforce. Within each of the 16 Career Clusters, one can find careers that incorporate most if not all of these options. When a student takes their ACP seriously, it is our hope that they have the background to go multiple directions after graduation, yet have made the mature decision to start in the area that best fits their interest and abilities. Many career paths require a minimum of a 4 year Bachelor’s degree, yet many, many more careers require education and training of 2 years or less. It is important that all students take their ACP seriously so their first step after graduation fits them uniquely.

Helpful Websites:
4 year college/university bound student
Career Cruising – must login directly from the MASD website (use Google login)
http://uwhelp.wisconsin.edu
http://www.wisconsinprivatecolleges.org
http://majornania.uwex.edu
http://colleges.usnews.rankingsandreviews.com/best-colleges/search

The option of starting at a Wisconsin 2 year university
http://www.uwc.edu

The technical college bound student:
http://www.wtcsystem.edu

Websites that will inform the military focused student:
http://www.airforce.com
http://www.army.mil
http://www.marines.com
http://www.navy.com
http://www.uscg.mil
http://www.military.com
http://todaysmilitary.com

Area building trades website
http://www.milwbuildingtrades.org

General career exploration websites:
Career Cruising – must login directly from the MASD website (use Google login)
https://www.wicareerpathways.org
http://www.careeronestop.org
http://www.bls.gov
Interdisciplinary Capstone
Course Offerings and Course Sequence

| AP Seminar (offered beginning 2019-20) | → | AP Research (offered beginning 2020-21) |

**AP Seminar 2000 A/B**
Grades: 11, 12
Transcripted: No
Credit: 1 credit
Length: Year
Prerequisites: At least two other AP courses previously taken or taken concurrently
Additional Fees or Required Materials: None

Description: AP Seminar is the first of two courses in the AP Capstone program, an innovative diploma program from the College Board that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges and employers. Students will investigate real-world topics of their choosing from multiple perspectives while learning to collect and analyze information with accuracy and precision, develop arguments based on facts, and effectively communicate them. Students will independently and collaboratively examine materials like news stories, research studies, and literary works to craft arguments to support a point of view and communicate them effectively through the use of various media. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

Students are assessed through a combination of individual and team projects and presentations as well as through a written exam. Students earning scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma. This signifies outstanding academic achievement and attainment of college-level academic and research skills.

More information can be found at the following link:
Art Department
Course Offerings and Course Sequence

### Intro Level Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceramics I</td>
<td>#1001</td>
</tr>
<tr>
<td>Digital Photography I</td>
<td>#1228</td>
</tr>
<tr>
<td>Drawing I</td>
<td>#110</td>
</tr>
<tr>
<td>Graphic Design I</td>
<td>#116</td>
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<tr>
<td>Painting I</td>
<td>#1120</td>
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</tbody>
</table>

### Intermediate Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Ceramics II</td>
<td>#1002</td>
</tr>
<tr>
<td>Digital Photography II</td>
<td>#1229</td>
</tr>
<tr>
<td>Drawing II</td>
<td>#111</td>
</tr>
<tr>
<td>Graphic Design II</td>
<td>#117</td>
</tr>
<tr>
<td>Painting II</td>
<td>#1129</td>
</tr>
<tr>
<td>Digital Illustration</td>
<td>#118</td>
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<tr>
<td>Unified Art</td>
<td>#1232</td>
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</tbody>
</table>

### Advanced Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Studio Art</td>
<td>#120 A/B</td>
</tr>
<tr>
<td>AP Art History</td>
<td>#121 A/B</td>
</tr>
</tbody>
</table>

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# The Art Career Project

www.theartcareerproject.com

Careers in the visual arts vary in their education requirements. While some may require no formal post-secondary education, others may ask for an Associates, Bachelors, or Master’s Degree. The Art Career Project website can provide answers to these questions as well as links to schools and universities that offer programs in these fields.

- Animator
- Conservator
- Painter
- Art Critic/Writer
- Curator
- Photographer
- Art Director
- Fashion Designer
- Potter
- Art Teacher
- Gallery Owner
- Set Designer
- Art Therapist
- Game Designer
- Taxidermist
- Arts Administrator
- Graphic Designer
- Tattoo Artist
- Automotive Design
- Illustrator
- Visual Effects Artist
- Cinematographer
- Industrial Designer
- UI/UX Designer
- Costume Designer
- Muralist
- Web Designer

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[Arts, Audio/Video Technology & Communications Clusters]

[Link to Clusters: https://www.wicareerpathways.org/Students/Clusters/Arts-AudioVideoTechnology-Communications]

Arts, audio/video technology and communications careers include designing, producing, exhibiting, performing, writing and publishing multimedia content. This field also involves the visual and performing arts, journalism and entertainment services.
## ART

**ART (VISUAL)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Most Applicable Career Cluster(s)</th>
<th>Grades</th>
<th>Transcripted</th>
<th>Credit</th>
<th>Length</th>
<th>Prerequisites</th>
<th>Additional Fees or Required Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AP Art History</strong></td>
<td>AP Art History offers students an exciting opportunity to learn about</td>
<td>Arts, Audio/Video Technology, and</td>
<td>10, 11, 12</td>
<td>No</td>
<td>1.0</td>
<td>Year</td>
<td>None</td>
<td>AP Exam fee</td>
</tr>
<tr>
<td>#121A/B</td>
<td>world history through art, artists, and artworks. Students will view and</td>
<td>Communications</td>
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<td>analyze architecture, sculpture, drawing, painting, and other art forms</td>
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<td>from the beginning of civilization through the post-modern era. Students</td>
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<td>will examine a variety of cultures and time periods. This class provides</td>
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<td>students with the tools for seeing and discussing art works from a critical</td>
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<td>and expressive standpoint. Students will develop a deep appreciation and</td>
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<td>sensitivity to works of art. Both traditional textbooks and e-books will</td>
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<td>be available to students. This course is designed to prepare students to</td>
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<td></td>
<td>take the AP College Board Art History exam.</td>
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<td><strong>Ceramics I</strong></td>
<td>The fine art of ceramics is studied through the making of functional and</td>
<td>Arts, Audio/Video Technology, and</td>
<td>9, 10, 11, 12</td>
<td>No</td>
<td>.5</td>
<td>Semester</td>
<td>None</td>
<td>Sketchbook</td>
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<tr>
<td>#1001</td>
<td>non-functional art. Basic hand building, potter's wheel building, and</td>
<td>Communications</td>
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<td></td>
<td>surface decorating methods are explored. Increased knowledge of clay art</td>
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<td></td>
<td>is covered through art history, art criticism, and aesthetics.</td>
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<td><strong>Ceramics II</strong></td>
<td>Ceramics II extends skills such as hand building, potters wheel, glazing</td>
<td>Arts, Audio/Video Technology, and</td>
<td>10, 11, 12</td>
<td>No</td>
<td>.5</td>
<td>Semester</td>
<td>Ceramics I or Clay I</td>
<td>Sketchbook</td>
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<tr>
<td>#1002</td>
<td>and various surface decoration techniques are emphasized. Students are</td>
<td>Communications</td>
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<td>encouraged to develop their own art making style. Students will be able to</td>
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<td>use different types of clay as needed. Art history, art criticism, and</td>
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<td></td>
<td>aesthetic awareness complement ceramic art production in this course.</td>
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<tr>
<td><strong>Digital Illustration</strong></td>
<td>Digital Illustration will focus on visual communication and problem</td>
<td>Arts, Audio/Video Technology, and</td>
<td>10, 11, 12</td>
<td>No</td>
<td>.5</td>
<td>Semester</td>
<td>Drawing I</td>
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<tr>
<td>#118</td>
<td>solving through digital drawing and painting. Students will learn basic</td>
<td>Communications</td>
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<td>skills using Adobe Illustrator, Photoshop, and InDesign. Artists in this</td>
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<td>course may work with traditional mediums first and then bring their work</td>
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<td>into digital programs to enhance or manipulate their work. Illustration</td>
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<td>prompts and themes may include scientific, editorial, picture book, graphic</td>
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<td>novel, and commercial illustration.</td>
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</table>

Qualifies for the Global Ed. Certificate
<table>
<thead>
<tr>
<th>ART (VISUAL)</th>
<th>Digital Photography I #1228</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades: 9, 10, 11, 12</td>
<td>Transcripted: No</td>
</tr>
<tr>
<td>Credit: .5 credit</td>
<td>Length: Semester</td>
</tr>
<tr>
<td>Prerequisites: None</td>
<td>Additional Fees or Required Materials:</td>
</tr>
</tbody>
</table>

**Description:** Digital Photography covers basic concepts of digital photography, including understanding and use of the camera, lenses, and other basic photographic equipment. The course will also address design principles as they relate to composition, space, exposure, light and color. Cameras in this class are used as a tool for strong photography while training the eye to see the shot will be emphasized. Basic digital editing of images will be taught with the use of industry standard software Adobe Photoshop and Lightroom.

**Most Applicable Career Cluster(s):** Arts, Audio/Video Technology, and Communications

<table>
<thead>
<tr>
<th>ART (VISUAL)</th>
<th>Digital Photography II #1229</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades: 10, 11, 12</td>
<td>Transcripted: No</td>
</tr>
<tr>
<td>Credit: .5 credit</td>
<td>Length: Semester</td>
</tr>
<tr>
<td>Prerequisites: Digital Photography I</td>
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</tbody>
</table>

**Description:** In Digital Photography II students will expand their knowledge of photography and camera skills, while using manual settings, camera RAW images and a variety of lenses to control their photographs. Students will be encouraged to develop their own personal style by incorporating Fine Art Photography style combined with technical skills. Industry standard software Adobe Photoshop and Lightroom will be used to edit photos.

**Most Applicable Career Cluster(s):** Arts, Audio/Video Technology, and Communications

<table>
<thead>
<tr>
<th>ART (VISUAL)</th>
<th>Drawing I #110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades: 9, 10, 11, 12</td>
<td>Transcripted: No</td>
</tr>
<tr>
<td>Credit: .5 credit</td>
<td>Length: Semester</td>
</tr>
<tr>
<td>Prerequisites: None</td>
<td>Additional Fees or Required Materials: Sketchbook</td>
</tr>
</tbody>
</table>

**Description:** Drawing I provides students an experience in drawing techniques using different medias and drawing styles. Students will use graphite, charcoal, pen and ink, pastels, color pencil. Artists will study drawing techniques while strengthening design skills. Art history, problem solving, aesthetics, writing and research are interwoven with studio art production.

**Most Applicable Career Cluster(s):** Arts, Audio/Video Technology, and Communications

<table>
<thead>
<tr>
<th>ART (VISUAL)</th>
<th>Drawing II #111</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades: 10, 11, 12</td>
<td>Transcripted: No</td>
</tr>
<tr>
<td>Credit: .5 credit</td>
<td>Length: Semester</td>
</tr>
<tr>
<td>Prerequisites: Drawing I</td>
<td>Additional Fees or Required Materials: Sketchbook</td>
</tr>
</tbody>
</table>

**Description:** In Drawing II students will continue to build skills in multiple mediums and techniques. Personal expression and style are encouraged as the student creates artwork for portfolio use. Students will use graphite, charcoal, color pencil, chalk pastel, oil pastel, marker and digital media to further enhance their skills. Design and composition are the cornerstones for the artwork created in this class.

**Most Applicable Career Cluster(s):** Arts, Audio/Video Technology, and Communications
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Most Applicable Career Cluster(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Graphic Design I</strong> #116</td>
<td>Graphic Design I students are provided the knowledge and skills, needed to create great design and typography from a design professional while using industry standard Adobe design software Illustrator, Photoshop, Lightroom and InDesign. Topics covered include Color Theory, Principles of Design, Typography, Composition, Layout, Branding and Careers in Design. Students will create digital logos, advertisements, layouts, posters, corporate branding and more.</td>
<td>Arts, Audio/Video Technology, and Communications</td>
</tr>
<tr>
<td><strong>Graphic Design II</strong> #117</td>
<td>In Graphic Design II students will expand their skills in the Adobe design software Illustrator, Photoshop, Lightroom and InDesign. The emphasis of this course will be visual thinking and creative problem solving in art. Learning the steps and tools needed to execute well designed communications with a variety of design assignments. Deeper instruction on the use and application of the software; when and how to use each program for the best overall outcome of the finished print publication product.</td>
<td>Arts, Audio/Video Technology, and Communications</td>
</tr>
<tr>
<td><strong>Painting I</strong> #1120</td>
<td>This course provides students an experience in painting styles and techniques. Students will use watercolor, ink, acrylics to create artwork. Art History, design, problem solving, aesthetics, writing and research are interwoven with studio art production.</td>
<td>Arts, Audio/Video Technology, and Communications</td>
</tr>
<tr>
<td><strong>Painting II</strong> #1129</td>
<td>In Painting II students will continue to build skills in multiple mediums and techniques. Personal expression and style are encouraged as the student works to create works for use in a portfolio. Students will be able to use acrylics, ink, watercolor, and digital media. The class may also work together on a mural project within the building. Design and composition are the cornerstones for the work created in this class.</td>
<td>Arts, Audio/Video Technology, and Communications</td>
</tr>
</tbody>
</table>
### Studio Art
#### #120A/B

**Grades:** 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Consent of the Instructor, teacher recommendation with signature and a minimum of three previous art courses  
**Additional Fees or Required Materials:** Sketchbook

**Description:** Studio Art is an independent advanced level art course. Problem solving is studied through goal setting, art production, journal making, essay and report writing. Students will do art research, art criticism, art critiques, and art exhibits. Students learn self motivation and goal setting skills that provide a framework for productive art making. Students should leave this course with a portfolio of work for post-secondary education.

**Most Applicable Career Cluster(s):** Arts, Audio/Video Technology, and Communications

### Unified Art
#### #1232

**Grades:** 10, 11, 12  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** 2nd Semester only  
**Prerequisites:** Consent of the Instructor  
**Additional Fees or Required Materials:** None

**Description:** Unified Art offers students with or without special needs the opportunity to showcase creative growth through making art. All students will create a variety of drawings, paintings, and sculptures. Students will be paired up and help facilitate creative projects personally as well as helping others with special needs. The course would be helpful for students who want to pursue a career in elementary education, art education, or working with individuals with special needs. If you are interested in this course please speak with art or special education instructors since space is limited and teacher consent is required.

**Most Applicable Career Cluster(s):** Arts, Audio/Video Technology, and Communications

### Youth Apprenticeship (YA)
#### #YA WORK EXP

**Grades:** 11, 12  
**Transcripted:** No (State Recognized Certificate)  
**Credit:** 1.0 credit per semester  
**Length:** Year  
**Prerequisites:** Enrolled in a content related class for duration of Apprenticeship  
**Additional Fees or Required Materials:** None

**Description:** Wisconsin's Youth Apprenticeship program is a part of a statewide School-to-Work initiative. It is designed for high school students who want hands on learning in an occupational area at a worksite along with classroom instruction. This one or two year elective program combines academic and technical instruction with mentored on-the-job learning. This is a paid work experience and students will earn high school credit and a state certificate. It is possible that students could earn postsecondary credit as well. Students completing a one year Youth Apprenticeship will be required to fulfill 450 work hours, and a two year Youth Apprenticeship will require 900 work hours.

**Content Areas:**  
Arts, Audio/Video Technology, and Communications
** Intro to Business & Marketing is the entry level course for all business & marketing pathways

* All students beginning with the 2021 graduating class will take Personal Finance during the junior year to fulfill graduation and ACP requirements

Business & Marketing Education
Course Offerings and Course Sequence

** Intro to Business & Marketing

Marketing & Entrepreneurship
- Web Design
- Project Management
- Speech
- Computer Graphics
- Accounting Principles
- Foreign Language
- Technical Communications

Business Management & Administration
- All Math Classes
- Database Management
- Accounting Principles
- Finance Careers
- Marketing Communications
- Economics
- Foreign Language
- Technical Communications

Finance & Accounting
- All Math Classes
- Office Apps for Business
- Economics
- Project Management
- Entrepreneurship
- Foreign Language
- Technical Communications
Career Options:

**Entry level with no formal higher education**
- Bank Teller
- Counter Clerk
- Customer Representative
- Vendor
- With Associates Degree or formal Certification
- Auto Salesperson
- Advertising Layout Design
- Advertising Sales Rep

**For those with Bachelor's Degrees or higher**
- Advertising Account Executive
- Advertising Manager
- Business Agent
- Convention Planner
- Insurance Agent
- Marketing Manager

https://www.wicareerpathways.org/Students/Clusters/Marketing

Career Options:

**Entry level with no formal higher education**
- Cashier
- Service Representative
- Telemarketer
- Vendor
- With Associates Degree or formal Certification
- Buyer
- Real Estate Agent
- Appraiser

**For those with Bachelor's Degrees or higher**
- Advertising Account Executive
- Advertising Manager
- Business Agent
- Convention Planner
- Insurance Agent
- Marketing Manager

https://www.wicareerpathways.org/Students/Clusters/BusinessManagement-Administration
**BUSINESS AND MARKETING EDUCATION**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>DESCRIPTION</th>
<th>MOST APPROPRIATE CAREER CLUSTER(S)</th>
<th>GRADES</th>
<th>TRANSCRIPTED</th>
<th>CREDIT</th>
<th>LENGTH</th>
<th>PREREQUISITES</th>
<th>ADDITIONAL FEES OR REQUIRED MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Accounting Principles #124</strong></td>
<td>Accounting is known as the language of business. Did you know accounting is a required course for all business majors at the post-secondary level and must know for business owners and managers? Develop an understanding of basic accounting concepts by accounting for transactions for both service and merchandising businesses.</td>
<td>Business Management and Administration</td>
<td>9, 10, 11, 12</td>
<td>No</td>
<td>.5 credit</td>
<td>Semester</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td><strong>Intro to Business and Marketing #1419</strong></td>
<td>Develop leadership traits, relationship building, conflict resolution; along with creating ethical students who can think critically. Not only will the course work on developing leadership and ethical behavior, but it will look at real life business situations our students will face throughout their education and career.</td>
<td>Business Management and Administration</td>
<td>9, 10, 11, 12</td>
<td>No</td>
<td>.5 Credit</td>
<td>Semester</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td><strong>Business Co-op / Internship #1329A/B</strong></td>
<td>The advanced Business capstone course is designed for students to explore business concepts and employability skills in the classroom and in the work place. Students will work in an approved business training station a minimum of 15 hours per week; in which, they will receive two credits. Training is supervised experience that incorporates the State Business Skills Standards. The one credit classroom instruction component includes topics in management, ethics, worker rights, and Co-op principles. Innovative and creative thinking is an essential component to this course as it is project-based.</td>
<td>Business Management and Administration</td>
<td>12</td>
<td>No</td>
<td>3 credit</td>
<td>Year</td>
<td>Another business or marketing course</td>
<td>None</td>
</tr>
<tr>
<td><strong>Entrepreneurship #397</strong></td>
<td>Small business ownership has been a vital part of the American dream. Explore the impact of inventors and entrepreneurs of past and present on our economy. Start your own simulated business by developing a business plan which includes market research, promotion, financing, and risk management. Activities are designed to encourage innovative thinking related to new products, services, demographics, technology, and community needs.</td>
<td>Marketing</td>
<td>10, 11, 12</td>
<td>No</td>
<td>.5 credit</td>
<td>Semester</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
**Description:** Study and analyze account groups for their problems of composition, valuation, recognition, and appropriate accounting treatment at a basic level. Explore partnerships and corporations as well as financial statement analysis techniques. Do basic accounting problems and use a practice set to summarize principles used in Accounting Principles and become familiar with systems procedures.

**Most Applicable Career Cluster(s):**
Business Management and Administration/Finance

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**Description:** Are you intrigued by the financial market, stocks, bonds, and like to think in numbers? Then Finance Careers and Essentials is the right course for you. Focus on current finance careers and essential skills needed to be successful in that career. This course will explore specific careers including but not limited to: financial analyst, financial planning, investing, business education, real estate, and insurance.

**Most Applicable Career Cluster(s):**
Business Management and Administration/Finance

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**Description:** An integrated, college approach to teach real world accounting. Students will develop the skills to use accounting systems for gathering and providing data to internal and external decision makers. With this course, students majoring in any area of business will be fully prepared to excel immediately in their required accounting courses.

**Most Applicable Career Cluster(s):**
Business Management and Administration/Finance

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**Description:** Devoted to introducing basic marketing principles including but not limited to: channel management, pricing, promotion, and selling. Gain insight, knowledge, and skills in the processes of product, service, and idea exchanges. Innovative and creative thinking is a key aspect to this class.

**Most Applicable Career Cluster(s):**
Marketing
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Description</th>
<th>Most Applicable Career Cluster(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Office Apps for Business</strong> #1399</td>
<td>Discover advanced features and study the effective integration of Microsoft Office's five major applications: Word, Excel, Access, PowerPoint and Outlook. Through a hands-on approach, learn essential computer concepts and how to apply advanced features of these applications. At the end of the course students will take the MOS (Microsoft Office Specialist) Exam.</td>
<td>Information Technology</td>
</tr>
<tr>
<td><strong>Marketing Co-op/Internship</strong> #3999A/B</td>
<td>The advanced Marketing capstone course is designed for students to explore marketing concepts and training in the classroom and in the workplace. Students will work in an approved marketing training station a minimum of 15 hours per week; in which, they will receive two credits. Training is supervised experience that incorporates the State Marketing Skills Standards. The one credit classroom instruction component includes topics in promotion, advertising, management, ethics, advanced marketing, visual merchandising, and Co-op principles. Innovative and creating thinking is an essential component to this course as it is project-based.</td>
<td>Marketing</td>
</tr>
<tr>
<td><strong>Personal Finance</strong> #1369</td>
<td>An understanding of Financial Literacy is absolutely essential in today's world. Students will learn about the important relationship between skills, education, and career choices. Learn to set effective financial goals, various strategies for getting the most out of earnings. Topics include: budgeting, banking, saving, appropriate use and management of credit, insurance, investing, being a critical consumer, and retirement planning. *Required course for all students beginning with the graduating class of 2021.</td>
<td>Business Management and Administration/Finance</td>
</tr>
<tr>
<td><strong>Project Management</strong> #115</td>
<td>Focus on the project management processes and knowledge areas. Students will learn how to plan, schedule, and control projects. As well as, learn project management tools and techniques and use them to define project goals, objectives, costs and time, and manage project scope, schedule and resources.</td>
<td>Business Management and Administration/Finance</td>
</tr>
</tbody>
</table>
**MARKETING EDUCATION**

### Retail Management #399

**Grades:** 10, 11, 12  
**Transcripted:** No  
**Credit:** 0.5 credit  
**Length:** Semester  
**Prerequisites:** Marketing Communications  
**Additional Fees or Required Materials:** None

**Description:** Designed for students to expand their marketing interests in retail management. Retailing is a combination of activities involved in selling goods and services directly to the final consumer for personal use. Take an integrated approach to retail management. Many activities will be explored including but not limited to: retail strategy development, understanding the consumer, retail information systems, market and location selection, merchandise buying and handling, financial operations management, human resource management, operations management, store layout and design, and management ethics.

**Most Applicable Career Cluster(s):**  
Business Management and Administration

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**BUSINESS AND INFORMATION TECHNOLOGY**

### Social Media Marketing #396

**Grades:** 10, 11, 12  
**Transcripted:** No  
**Credit:** 0.5 credit  
**Length:** Semester  
**Prerequisites:** Marketing Communications  
**Additional Fees or Required Materials:** None

**Description:** Social Media Marketing presents the use of online social networking as a business strategy designed to increase customer loyalty. Throughout the course, students will study major social media channels and marketing campaign techniques. Students will evaluate current and emerging tools in the digital marketplace. These tools include social bookmarking and techniques that can drive social media traffic. Students will also explore the effectiveness of social media.

**Most Applicable Career Cluster(s):**  
Marketing

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### Sports and Entertainment Marketing #3979

**Grades:** 10, 11, 12  
**Transcripted:** No  
**Credit:** 0.5 credit  
**Length:** Semester  
**Prerequisites:** Marketing Communications  
**Additional Fees or Required Materials:** None

**Description:** Sports and Entertainment Marketing is a course designed for students to expand their marketing interests in sports, entertainment, and event marketing. This exciting course focuses on event planning, endorsements, branding, sponsorships, licensing, promotion, entertainment and event marketing. Students will explore this growing career segment in the marketplace. DECA participation level can be based on individual availability to enhance the classroom experience and knowledge.  
**Special Note:** Marketing Communications is a prerequisite to Sports and Entertainment Marketing. Courses may be taken concurrently.

**Most Applicable Career Cluster(s):**  
Marketing

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### Web Design #1489

**Grades:** 10, 11, 12  
**Transcripted:** No  
**Credit:** 0.5 credit  
**Length:** Semester  
**Prerequisites:** None  
**Additional Fees or Required Materials:** None

**Description:** Learn to create websites using multiple pieces of web design applications including but not limited to basic design software, HTML (HyperText Markup Language) using Notepad ++ and advanced web design software. The course will focus on common web design processes, good design practices and a variety of web page layout techniques.

**Most Applicable Career Cluster(s):**  
Business Management and Administration/Finance/Marketing/Transportation, Distribution, and Logistics
### Work Seminar

**Description:** Work Seminar is recommended to be taken in conjunction with Work Experience, the seminar portion of this course discusses day to day issues that come up in the work world. Topics such as customer service, human resources, job search strategies, conflict resolution, career clusters and money management. When taken with Work Experience students may have the option to leave school early each afternoon to work and earn up to 3 credits.

**Most Applicable Career Cluster(s):**
- Business Management and Administration/Finance/Marketing/
  Transportation, Distribution, and Logistics

<table>
<thead>
<tr>
<th>Grades</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transcripted</td>
<td>No</td>
</tr>
<tr>
<td>Credit</td>
<td>1.0 credit</td>
</tr>
<tr>
<td>Length</td>
<td>Year</td>
</tr>
<tr>
<td>Prerequisites</td>
<td>Guidance Counselor Recommendation</td>
</tr>
<tr>
<td>Additional Fees or Required Materials</td>
<td>None</td>
</tr>
</tbody>
</table>

### Youth Apprenticeship (YA)

**Description:** Wisconsin’s Youth Apprenticeship program is a part of a statewide School-to-Work initiative. It is designed for high school students who want hands on learning in an occupational area at a worksite along with classroom instruction. This one or two year elective program combines academic and technical instruction with mentored on-the-job learning. This is a paid work experience and students will earn high school credit and a state certificate. It is possible that students could earn postsecondary credit as well. Students completing a one year Youth Apprenticeship will be required to fulfill 450 work hours, and a two year Youth Apprenticeship will require 900 work hours.

**Content Areas:**
- Finance
- Information Technology
- Marketing

<table>
<thead>
<tr>
<th>Grades</th>
<th>11, 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transcripted</td>
<td>No (State Recognized Certificate)</td>
</tr>
<tr>
<td>Credit</td>
<td>1.0 credit per semester</td>
</tr>
<tr>
<td>Length</td>
<td>Year</td>
</tr>
<tr>
<td>Prerequisites</td>
<td>Enrolled in a content related class for duration of Apprenticeship</td>
</tr>
<tr>
<td>Additional Fees or Required Materials</td>
<td>None</td>
</tr>
</tbody>
</table>
Computer Science
Course Offerings and Course Sequence

Exploring Computer Science  
#1659 A/B

Intro to Computer Programming  
#1660 A/B

HTML Programming and JavaScript  
Traditional #163  
Online #1639OL

AP Computer Science Principles  
#1689 A/B

Game and App Design  
#1662

AP Computer Science A (Java)  
#164 A/B

IT Academy Capstone Course  
#1664 B

Operating Systems and Servers  
#1665

Networking and Security  
#1666

Advanced CyberSecurity  
#1667

Some Career Options:
Entry level with no formal higher education
Data Entry  Professional Gamer

With Associates Degree or formal Certification
Webmaster/Design  Computer Programmer
Systems Analyst  Computer Support Specialist
Hardware Technician  Software Technician
Digital Forensics  Network Technician
Graphic Designer  Software Developer

For those with Bachelor's Degrees or higher
Software Engineer  Computer Programmer
Gaming Engineer  Web Design
Software Design/Development  Web Engineer
Data Systems Engineer  Animator
Hardware Engineer  Network Engineer

Building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration services.

https://www.wicareerpathways.org/Students/Clusters/InformationTechnology

MHS Career Related Co-Curricular:  
Robotics  
IT Academy

Information Technology
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Most Applicable Career Cluster(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Computer Science A</td>
<td>This course is designed to further prepare students for careers in computer-related or computer-dependent fields. The course will teach students the skills and techniques necessary for programming in the advanced language Java. Topics to be covered include program structure and methodology, methods, control structures for decisions and repetition, simple and advanced data structures, data and procedural abstraction, manipulation, classes, object-oriented programming, inheritance, and polymorphism. Upon completion of AP Computer Science A, students should be able to take and pass the AP Computer Science Exam. (Students will need to provide or purchase a flash drive for work with class files.)</td>
<td>Business Management and Administration/Education and Training/Information Technology/Manufacturing</td>
</tr>
<tr>
<td>AP Computer Science Principles</td>
<td>AP Computer Science Principles is designed to introduce students to the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes the world. The course is rigorous and rich in computational content, includes computational and critical thinking skills, and engages students in the creative aspects of the field. This course views Computer Science holistically, not just focusing on programming, but on the thinking skill, practices, and activities involved in using computer technology as a tool for the betterment of humanity. AP Computer Science Principles emphasizes three key themes that help students build a solid understanding and facility with computing and computational thinking: creativity (designing and implementing computer based solutions to problems and creating artifacts that give evidence of this), use of technology as a means for solving computational problems and exploring creative endeavors (focusing on the big ideas of computer science, including but going beyond programming), and a focus on people and society, not just on machines and systems (students explore computer science's relevance to and impact on the world today). (Note: Exploring Computer Science / Introduction to Computer Science are courses that are recommended but not required to take AP Computer Science Principles.)</td>
<td>Information Technology/Science, Technology, Engineering, and Mathematics</td>
</tr>
<tr>
<td>Advanced Cybersecurity</td>
<td>This course will help students build on prior computer science, networking, and cybersecurity knowledge through specialized and practical cybersecurity and ethical hacking techniques. Students will have the opportunity to learn about and hone their skills in digital forensics, network and data security, cryptography, log and network traffic analysis, password hashing and cracking, as well as human security and social engineering. The purpose of this course is to give students an idea of the many tools that they might need to draw upon when entering the field of cybersecurity, as well as give them ethical guidance and a safe place to practice these skills. During the course, students will also participate in the National Cyber League competition, in which they will put their skills to the test against college and high school students from across the country.</td>
<td>Business Management and Administration /Information Technology/Manufacturing/Science, Technology, Engineering, and Mathematics</td>
</tr>
</tbody>
</table>
**Computer Science**

**Database Management**

#1529

**Description:** This course teaches students how to analyze, design, and implement a computerized database. It further teaches students how to use a database to answer questions and support analyses. Students learn the basics of administering a database including writing basic and advanced queries; providing security, performance tuning, backup and recovery; and other administrative tasks. Students learn to use SQL (standard query language) in database administration. Upon completion, students will be able to take tests to gain Microsoft Technology Associate certification. This course is required for the IT Academy Information Management Strand, but is open to all students who meet the prerequisites.

A fee for the certification tests may be assessed as part of the requirements of this course.

**Most Applicable Career Cluster(s):** Information Technology/Science, Technology, Engineering, and Mathematics

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**Exploring Computer Science**

#1659A/B

**Description:** Exploring Computer Science is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning particular software tools or languages, the course is designed to focus on the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems. The goal of Exploring Computer Science is to develop in students the computational practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students. Students will also be introduced to topics such as interface design, limits of computers, and societal and ethical issues.

Successful completion of this course can satisfy 1 credit of mathematics toward MHS graduation requirements.

**Most Applicable Career Cluster(s):** Agriculture, Food, and Natural Resources/Architecture and Construction, Arts, Audio/Video Technology, and Communications

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**Game and App Design**

#1662

**Description:** In Game and App Design students will build on prior computer science knowledge and concepts through game development. Students will learn to create exciting games that can be shared with others while learning how to become better problem-solvers through the art of computer programming. Throughout this course, students will tie key computer science concepts from previous courses (conditionals, randomness, and objects) with important aspects of game design such as user input, level design, and multiplayer games. Students will also learn how to add animation, sound effects, and other interactive components to their games. This course gives students the opportunity to see what happens “behind the scenes” and then gives them the chance to become the “creator.”

**Most Applicable Career Cluster(s):** Information Technology/Science, Technology, Engineering, and Mathematics
**COMPUTER SCIENCE**

◆ **HTML Programming and JavaScript**
  
  #1630L (online in Fall)
  #163 (traditional in Spring)

**Description:** Students in this course will create web pages by programming in HTML (HyperText Markup Language) and Java Script. Basic web programming and design will be introduced by writing code in HTML. Students will create Cascading Style Sheets (CSS) to improve their ability to create web pages. To enhance their web pages, students will learn programming in Java Script to add animation, interactivity, site navigation, and other enhancements. Previous familiarity with the Internet will be helpful. Emphasis will be on developing programming skills as they apply to web site design, and on problem solving using computers. Students will need to provide or purchase a flash drive for working with the course data files.

**Most Applicable Career Cluster(s):**
Information Technology/Science, Technology, Engineering, and Mathematics

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**COMPUTER SCIENCE**

◆ **IT Academy Capstone**
  
  #1664

**Description:** In this course, the student will use a personalized learning approach to design a course of study centered around two main components: 1) a problem to solve or a topic to learn and 2) workplace experience, both related to the field of computer science and/or information technology. The details on how these two components will be met will be determined by the student and his/her “advisor”, an IT Academy instructor. Throughout the semester, the student will meet with their advisor regularly to ensure that the student is on track and to help with any issues/concerns that arise during the course of study. In addition, the collaboration between student and advisor will also ensure that all goals and outcomes of the project have been met. The final product from this course, including a portfolio of their IT education and experience, will be presented to the computer science department and/or the IT Academy Advisory Board. As part of the course, a detailed description of the independent study and workplace experience will be provided along with the academic work that will be completed. Due to the flexibility in the design of this course for each student, an IT Academy instructor will work with each student to determine how their work will be evaluated and assessed.

**Most Applicable Career Cluster(s):**
Information Technology/Science, Technology, Engineering, and Mathematics

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**COMPUTER SCIENCE**

◆ **Introduction to Computer Programming**
  
  #1660

**Description:** Students will write and run programs using the VISUAL BASIC computer language. The student will be directed to analyze a problem, develop an algorithm for its solution, code the process and verify the output from the computer. Emphasis will be on problem solving techniques and modular (top-down) programming. The majority of the assigned problems will relate to the mathematical experience of the student with additional problems involving statistics, practical applications, number crunching, and graphics.

**Most Applicable Career Cluster(s):**
Business Management and Administration/Education and Training/Information Technology/Manufacturing
COMPUTER SCIENCE
◆ Networking and Security
#1666

**Description:** This course will help students build an understanding of computer network design and function, as well as addresses issues surrounding network security. The course will focus on the following topics: network infrastructures, network hardware, protocols and services, security layers, operating system security, network security, and security software. Upon completion, students will be able to take tests to gain Microsoft Technology Associate certification. This course is required for the IT Academy Networking and Hardware Strand, but is open to all students who meet the prerequisites. A fee for the certification tests may be assessed as part of the requirements of this course.

**Most Applicable Career Cluster(s):**
- Business Management and Administration / Information Technology/Manufacturing/Science, Technology, Engineering, and Mathematics

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**Grades:** 10, 11, 12
**Transcripted:** No
**Credit:** .5 credit
**Length:** Semester
**Prerequisites:** Completion of Algebra 1 or equivalent
**Additional Fees or Required Materials:** None

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COMPUTER SCIENCE
◆ Operating Systems and Servers
#1665

**Description:** This course will help students build an understanding of operating systems and servers fundamental to today’s computer systems. The course will focus on the following topics: operating system configurations, installing and upgrading client systems, managing applications, managing files and folders, managing devices, operating system maintenance, server installation, server roles, active directory, storage, server performance management, and server maintenance. Upon completion, students will be able to take tests to gain Microsoft Technology Associate certification. This course is required for the IT Academy Networking and Hardware Strand, but is open to all students who meet the prerequisites. A fee for the certification tests may be assessed as part of the requirements of this course.

**Most Applicable Career Cluster(s):**
- Business Management and Administration / Information Technology/Manufacturing/Science, Technology, Engineering, and Mathematics

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**Grades:** 9, 10, 11, 12
**Transcripted:** No
**Credit:** .5 credit
**Length:** Semester
**Prerequisites:** Completion of Algebra 1 or equivalent
**Additional Fees or Required Materials:** None

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COMPUTER SCIENCE
◆ Youth Apprenticeship (YA)
#YA WORK EXP

**Description:** Wisconsin’s Youth Apprenticeship program is a part of a statewide School-to-Work initiative. It is designed for high school students who want hands on learning in an occupational area at a worksite along with classroom instruction. This one or two year elective program combines academic and technical instruction with mentored on-the-job learning. This is a paid work experience and students will earn high school credit and a state certificate. It is possible that students could earn postsecondary credit as well. Students completing a one year Youth Apprenticeship will be required to fulfill 450 work hours, and a two year Youth Apprenticeship will require 900 work hours.

**Content Areas:**
- Information Technology
Information Technology Academy
Mukwonago High School

Mission Statement:

The MHS IT Academy’s mission is to **inspire** students to pursue careers in Computer Science and Information Technology through **rigorous** and **relevant** course work, and to **provide** and **support** opportunities for in-depth, practical experiences to increase **employability** and **marketability** in these fields.

Academy Structure:

IT Academy Program Overview

Students in the IT Academy will be engaged in experiences that increase both their learning opportunities and practical experiences. In addition to core curriculum required by all academy students, students will be able to choose a course of study focusing on areas that best fit their interests and skills. Each student, during their senior year, will complete a required Capstone Course. The Capstone Course involves both independent study and real-world workplace experience; students will be placed in an area business as an intern or special project participant.
IT Academy Requirements: 4.5 Credits minimum

For IT Academy students: (4.5 credits minimum)

Programming and Software Development Strand:

Course Requirements:
- 2.5 credits – choose from the following:
  - 1.0 credit *AP Computer Science Principles*
  - 1.0 credit *AP Computer Science A*
  - 0.5 credits from any other course associated with the IT Academy or the Computer Science Department
- 0.5 credits *Technology and Society* (Social Studies credit - online course)
- 0.5 credits *Technical Communication* (English credit – semester course)
- 0.5 credits *Project Management* (Business elective credit – semester course)
- 0.5 credits *IT Academy Capstone* (elective credit - second semester of Senior year)

Networking and Cybersecurity Strand:

Course Requirements:
- 2.5 credits – choose from the following:
  - 1.0 credits *Digital Electronics* (Technology and Engineering Education – year course)
  - 0.5 credits *Operating Systems and Servers* (Computer Science – semester course)
  - 0.5 credits *Networking and Security* (Computer Science – semester course)
  - 0.5 credits *Advanced Cybersecurity* (Computer Science – semester course)
  - 0.5 credits from any other course associated with the IT Academy
- 0.5 credits *Technology and Society* (Social Studies credit - online course)
- 0.5 credits *Technical Communication* (English credit – semester course)
- 0.5 credits *Project Management* (Business elective credit – semester course)
- 0.5 credits *IT Academy Capstone* (elective credit - second semester of Senior year)

Data Management Strand:

Course Requirements:
- 2.5 credits – choose from the following:
  - 0.5 – 1.0 credits of Business Education (*Web Design, Office Applications for Business*)
  - 0.5 – 1.0 credits *Intro to Data Science and Analytics 1 & 2* (Math – 2 semester course)
  - 0.5 credits *Database Management* (Computer Science – semester course)
  - 0.5 credits *HTML Programming and JavaScript* (Computer Science – semester course)
  - 0.5 credits from any other course associated with the IT Academy
- 0.5 credits *Technology and Society* (Social Studies credit - online course)
- 0.5 credits *Technical Communication* (English credit – semester course)
- 0.5 credits *Project Management* (Business elective credit – semester course)
- 0.5 credits *IT Academy Capstone* (elective credit - second semester of Senior year) OR 3.0 credits Business Co-op / Internship (elective credit - full Senior year)
IT Academy Expectations:

Admission:
All students entering the IT Academy will be selected through an application process. Applications will be due February 15, 2019.

Apply online at: http://www.masd.k12.wi.us/mhs/academics or http://masditacademy.wordpress.com

Student Expectations:
- Successfully complete required IT Academy core courses
- Successfully complete required courses within your selected IT Academy focus area
- Attend scheduled job shadows/field trips and Academy meetings
- Collect artifacts for IT Academy Portfolio to be presented upon graduation
- Participate in work-based experience (internship, etc.) with community partner
- Exhibit employable skills: responsibility, integrity, ethics, communication
- Adhere to the Mukwonago Way (Be Respectful, Be Responsible, Be Safe, Be Engaged)
- Maintain a 2.5 GPA minimum in all Mukwonago High School courses
- Maintain a 3.0 GPA minimum in all IT Academy specific courses
- Meet all Mukwonago High School Graduation Requirements

MHS IT Academy Certificate
In addition to the standard requirements for graduation, IT Academy students will meet a set of requirements including participation in a capstone project and an internship/work-place experience with local partners.

Upon graduation, IT Academy students receive their Mukwonago High School diploma and a certificate of completion acknowledging that the expectations set forth by the IT Academy have been met.

IT Academy Leadership Team:

For more information about the IT Academy, contact:

Jennifer Wolf
Math Teacher
wolfje@masd.k12.wi.us

Jim Ferwerda
Math & Computer Science Teacher
ferweja@masd.k12.wi.us

Scott Pratt
Math & Computer Science Teacher
prattsc@masd.k12.wi.us

Danny Marzahl
Math & Computer Science Teacher
marzada@masd.k12.wi.us
English / Drama Department
Course Offerings and Course Sequence

Grade 9
- Honors Freshman English #255 A/B
- Freshman English #220 A/B

Grade 10
- Honors Sophomore English #2249 A/B
- Sophomore English #241 A/B

Grade 11
- AP English Language & Composition #2239 A/B
- Junior English #218 A/B

Grade 12
- AP English Literature & Composition #1969 A/B
- Senior English #209 A/B

English Electives (which also count towards Senior English credit)
- Journalism #226 A/B
- Creative Writing #213
- Advanced Creative Writing #202
- Speech #244
- College Speech & Communication #2440
- Disney Literature #216
- Sports Literature in Society #208
- The Bible as Literature #245
- Film as Literature #231
- Heroes & Monsters #230

Some Career Options:
Entry level with no formal higher education
- Book Store Assoc
- Type Setter
- Clerk

With Associates Degree or formal Certification
- Teacher's Aide
- Technical Writer
- Printing Asst
- Desktop Publisher
- Paralegal
- Secretary

For those with Bachelor’s Degrees or higher
- Author
- Speech Writer
- Broadcast Journalist
- Editor
- Journalist
- Poet
- Teacher
- Librarian
- Professor
- Publisher
- Agent
- Announcer

MHS Career Related Co-Curricular:
- Debate
- Forensics
- Book Club
- School Newspaper
- Yearbook

Special Elective
Yearbook Lab #226Y (See Mr. Barton–Rm 201)

Drama
- Acting #171
- Stagecraft #184

Theatre Company #172

Career Clusters
Arts, A/V Technology & Communications
http://www.wicareerpathways.org/Students/Clusters/Arts-AudioVideoTechnologyCommunications

Education & Training
http://www.wicareerpathways.org/Students/Clusters/Education-Training

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DRAMA

◆ Acting #171

Description: This class focuses on the fundamentals of acting and is appropriate for students of all ability levels. Students work on movement, including stage combat, vocal delivery, improvisation, memorization, and performance. Students also learn how to analyze and interpret character and subtext. Performances include both solo and small group scenes ranging from humor to tragedy and from quick improvisations to longer rehearsed work.

Most Applicable Career Cluster(s): Arts, Audio/Video Technology, and Communications/Education and Training/Hospitality and Tourism/ Human Services

Grades: 9, 10, 11, 12
Transcripted: No
Credit: .5 credit
Length: Semester
Prerequisites: None
Additional Fees or Required Materials: None

DRAMA

◆ Stagecraft #184

Description: Through units exploring sound, costumes, lights, publicity, set design, props, makeup, set construction, and tech crew management, students learn various backstage areas of theatre production. Class lessons are theory-based with principles delivered chiefly through classroom projects and group activities. NOTE: Some hands-on work building sets—including painting and use of basic power tools—occurs sporadically during the semester and varies according to that year’s play/musical set needs. Some climbing of heights may be involved. Students are expected to follow performing arts center safety rules.

Most Applicable Career Cluster(s): Arts, Audio/Video Technology, and Communications

Grades: 9, 10, 11, 12
Transcripted: No
Credit: 0.5 credit
Length: Semester
Prerequisites: None
Additional Fees or Required Materials: None

DRAMA

◆ Theatre Company #172

Description: This advanced level theatre course takes the place of previous Directing and Advanced Acting course. Students will combine elements of acting and stagecraft to produce one or more traveling daytime one-act plays for a local community group as the culminating final project. Students will select an audience-appropriate script from a pre-approved collection, assign directing and acting roles to class members, and complete multiple production tasks related to props, costumes, hair/makeup, sound, lights, publicity, set construction, and staging. It is strongly recommended that students take Acting and Stagecraft before taking Theatre Company. Prior tech and acting experience outside of classes will be taken into consideration when seeking instructor approval.

Most Applicable Career Cluster(s): Arts, Audio/Video Technology, and Communications/Education and Training/Hospitality and Tourism/ Human Services

Grades: 10, 11, 12
Transcripted: No
Credit: .5 credit
Length: Semester
Prerequisites: Acting & Stagecraft RECOMMENDED; Instructor approval required
Additional Fees or Required Materials: None
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<tr>
<th>Course</th>
<th>Description</th>
<th>Most Applicable Career Cluster(s)</th>
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</thead>
<tbody>
<tr>
<td><strong>Advanced Creative Writing</strong></td>
<td>SPECIAL NOTE: Counts toward Senior English credit. Cannot be taken concurrently with Creative Writing. Students who have a serious interest in publishing original work, the course covers diverse writing forms, offers challenging and original projects, and allows students to produce a folio of diverse projects of their choosing. Students will have opportunities to submit for publication and to writing contests. The class also publishes a bound collection that includes writing from each student. Students will be encouraged to experiment, to use advanced techniques, to develop their voice, to evaluate their own writing and the work of others, and to enjoy the process of growing as authors.</td>
<td>Arts, Audio/Video Technology, and Communications</td>
</tr>
<tr>
<td><strong>AP English Language and Composition</strong></td>
<td>The AP English Language and Composition Course is designed to help students become skilled readers of prose written in a variety of rhetorical contexts and to become skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer’s purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to the effectiveness in writing. Students will learn to read complex texts with understanding and to write rich and complex prose to communicate effectively. Students will write to move beyond the traditional five-paragraph essay, allowing their writing content, purpose, and audience to guide their writing and organization. The goal is for students to become self-aware and flexible writers, who can understand and write content stemming from literature, graphic and visual images, and researched arguments. Students enrolling in this course must anticipate taking the AP English Language Examination.</td>
<td>Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications</td>
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<tr>
<td><strong>AP English Literature and Composition</strong></td>
<td>This two-semester course is designed for the college-bound student who wishes to study an accelerated College English 12 English Literature course (See Senior English course description). In addition to regular course work, students will focus upon preparation for the challenging AP Examination. Also, students may complete a research paper utilizing the MLA format. Those taking the AP Examination in May are exempt from the course’s Spring Semester Examination.</td>
<td>Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications</td>
</tr>
</tbody>
</table>

**Grades:** 10, 11, 12  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** Successful completion of Creative Writing  
**Additional Fees or Required Materials:** None

**Grades:** 11  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Teacher recommendation, appropriate test scores  
**Additional Fees or Required Materials:** AP Exam fee.

**Grades:** 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Teacher recommendation; appropriate test scores  
**Additional Fees or Required Materials:** AP Exam fee. Students may wish to voluntarily purchase their own copies of course literary texts.
ENGLISH
◆ College Speech and Communication
#2440

**Description:** SPECIAL NOTE: Counts towards Senior English credit.  
*College Speech and Communication* is a one semester course focused on the fundamentals of public speaking and communication skills. The emphasis is on the development of one's individual speaking ability in a variety of speech situations. Areas of study will include building self-confidence, planning and preparation, organizing ideas both in written and spoken form, research, the communication process, listening skills, audience etiquette, presentation style, interviewing and job application skills, and self-reflection. Students will regularly prepare and deliver speeches to inform, to persuade, to demonstrate and to entertain. Students will also lead and participate in small group discussions.

College Speech and Communication is also offered as a college-level, dual-enrollment class through the University of Wisconsin-Green Bay. If the course is successfully completed (generally a B- or better) the student will earn a transcript from UW-Green Bay with 3 credits of transferable credit to the college they attend. The majority of colleges and universities will accept these credits, although a few private institutions may not. There is a fee for the dual enrollment course.

**Most Applicable Career Cluster(s):**  
Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications

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ENGLISH
◆ Creative Writing
#213

**Description:** SPECIAL NOTE: Counts towards Senior English credit.  
Students will be exposed to a variety of written forms designed to improve their abilities to create vivid description, to take their writing in new directions, and to thoughtfully assess their composition. Activities include journaling, blogging, exercises that develop the use of figurative language, and production of the short story, poetry, novel blog; essays, screen play, chapters and other manuscripts. At least one work will be submitted to the class anthology. Students will be able to focus on writing types that they most enjoy.

**Most Applicable Career Cluster(s):**  
Arts, Audio/Video Technology, and Communications

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ENGLISH
◆ Disney Literature
#216

**Description:** SPECIAL NOTE: Counts towards Senior English credit.  
*Disney Literature* provides an analytical look at the culture presented through Walt Disney Corporation storytelling. It will analyze key strategies that evolve from the visual media format produced in Disney films by comparing them to each other as well as drawing conclusions related to textual formats of these tales. This course will examine the initial formats including but not limited to Grimm's fairy tales, Hans Christian Anderson, etc. and discuss the structures, language, character development, character perspectives and archetypes, and the evolution of those stories for the modern day audience. Students can also expect to examine the various social conversations that have emerged from Disney stories. Throughout the course, students will evaluate and measure how the Walt Disney Corporation has impacted its audience to become a globally recognized industry.

**Most Applicable Career Cluster(s):**  
Arts, Audio/Video Technology, and Communications
**Film As Literature**

*Description*: SPECIAL NOTE: Counts toward Senior English credit. Film as Literature is a study of how literature is adapted for film or media. Students will read about the history of film, the reflection or influence of film on the culture, and issues of interpretation, production, and adaption. Students will examine the visual interpretation of literary techniques and the limitations or special capacities of film versus text to present a literary work. Students will examine how films portray the human condition and the roles of men and women and the various ethnic and cultural minorities in the past and present. Different genres of film will also be explored. This course will be delivered through a combination of digital content, full-class discussions, and in-house and/or out-of-school field experiences, some of which students may need to attend outside of school hours. Students who take this class should be excited about film and literature. The course will culminate with a special project that demonstrates knowledge, application, and progress in the Film as Literature course.

**Most Applicable Career Cluster(s):**
- Arts, Audio/Video Technology, and Communications
- Business Management and Administration
- Education and Training
- Government and Public Administration

**Grades**: 9, 10, 11, 12
**Transcripted**: No
**Credit**: .5 credit
**Length**: Semester
**Prerequisites**: None
**Additional Fees or Required Materials**: None

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**Freshman English**

*Description*: Freshman English is an introduction course emphasizing the development of core language arts skills through the use of diverse texts, including but not limited to: poetry, novels, memoirs, fiction, nonfiction, and drama. This course guides students in becoming critical and responsive readers, and in utilizing different reading and note taking strategies to stimulate exploration, curiosity, reflection, conflict, and citizenship. Students will continuously work to refine writing skills necessary to write the literary essay. Regular grammar study, journaling, active research, and incorporation of MLA, will be expected. Students will also show interpersonal proficiency through group work and presentations. The purpose of the exploration of each unit is to develop a solid foundation of skills students will use throughout their high school careers. Selections for this course include in a novella in semester one, titled OF MICE AND MEN, by John Steinbeck. In semester two, students read a Shakespearean play titled, A MIDSUMMER NIGHT’S DREAM.

**Most Applicable Career Cluster(s):**
- Arts, Audio/Video Technology, and Communications
- Business Management and Administration
- Education and Training
- Government and Public Administration

**Grades**: 9
**Transcripted**: No
**Credit**: 1.0 credit
**Length**: Year
**Prerequisites**: None
**Additional Fees or Required Materials**: None

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**Heroes and Monsters**

*Description*: SPECIAL NOTE: Counts toward Senior English credit. In this one-semester course students will explore classic and contemporary stories and examine the motivations of famous heroes, villains, and monsters. The students will engage in a variety of required and limited choice reading pieces taken from ancient Hebrew literature (The Fall of Man, David vs Goliath), classic Greek myths (Perseus vs Medusa, Theseus vs the Minotaur, Hercules vs the Hydra, Odysseus vs Polyphemus, Hector vs Achilles), Anglo-Saxon literature (excerpts from Beowulf), Medieval literature (excerpts from Beowulf), Medieval literature (excerpts from Arthurian Legends), and 19th Century British literature (Frankenstein). Students will also read independently a novel or non-fiction book featuring traditional heroes and monsters or real-life heroes or “monsters” and present that story to the class. Writing in the course will include argumentative and informational pieces.

**Most Applicable Career Cluster(s):**
- Arts, Audio/Video Technology, and Communications
### Honors Freshman English
#### #225A/B

**Description:** Honors Freshman English is an introduction course emphasizing the development of core language arts skills through the use of independent reading, short stories, novels, drama, poetry, and mythology. Writing development continues with an expectation of elevated abilities in grammar, word choice, and composition construction. Through the writing process, the student will create and produce a variety of written works ranging from multi-paragraph expository essays to creative narratives. In preparation for advanced placement courses, studies pay closer attention to content, structure, conventions, style, and mechanics. Students will also show interpersonal proficiency through whole-class Socratic seminars, presentations, and detailed research speeches using MLA format. Students must have a high interest in recreational reading and be able to openly analyze literature in both book club and large group settings. Whole class selections for this course include: OF MICE AND MEN, THE HOUSE ON MANGO STREET, THE TAMING OF THE SHREW, and Hamilton's MYTHOLOGY.

**Most Applicable Career Cluster(s):**
- Agriculture, Food, and Natural Resources
- Architecture and Construction/Arts
- Audio/Video Technology
- Communications

**Grades:** 9  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Teacher recommendation and appropriate test and eighth grade language arts scores

**Additional Fees or Required Materials:** None

### Honors Sophomore English
#### #2249A/B

**Description:** The Honors Sophomore English course reinforces the many critical thinking, reading, and writing skills presented in Honors Freshman English. Composition skills include continued development of the literary essay and an emphasis upon advanced sentence writing. Students will examine the structure of the English language to aid this process. Literature study will be incorporated through thematic ideas and genre study, including short story, novel, drama, poetry, and non-fiction, with heightened focus on critical analysis. Reading titles may include A TALE OF TWO CITIES, OTHELLO, NIGHT, INTO THIN AIR, and TO KILL A MOCKINGBIRD. Supplementary readings, including novels, may be assigned to enrich the curriculum.

**Most Applicable Career Cluster(s):**
- Agriculture, Food, and Natural Resources
- Architecture and Construction/Arts
- Audio/Video Technology
- Communications

**Grades:** 10  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Teacher recommendation and /or high freshman English scores

**Additional Fees or Required Materials:** None

### Journalism
#### #226A/B

**Description:** SPECIAL NOTE: Counts toward Senior English credit. Journalism is a two-semester course that allows students to study the practical and philosophical aspects of newspaper, magazine, TV, radio, and Internet communication. Students will study journalistic writing, media history, press law, interview, review writing, sports, advertising, opinion writing, layout design and editing skills. Project work may include cartooning, digital photography, column writing and investigative reporting. Students will contribute to the online school newspaper and possibly MHSTV.

**Most Applicable Career Cluster(s):**
- Arts
- Audio/Video Technology
- Communications/Information Technology
- Law
- Public Safety, Corrections, and Security

**Grades:** 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** None

**Additional Fees or Required Materials:** None
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<tr>
<td><strong>Junior English #218A/B</strong></td>
<td>This college preparatory course is divided into two focused areas: a survey of American Literature using various literacy lenses and an increased attention upon student composition. Students will examine authors of American literature and their various literary techniques and themes. Students will continue to develop and refine listening, speaking, reading, writing, and language skills through literature and informational texts. Readings may include <em>The Adventures of Huckleberry Finn</em>, <em>The Crucible</em>, and <em>The Great Gatsby</em>.</td>
<td>Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications</td>
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<tr>
<td><strong>Mass Media Communications #211</strong></td>
<td>SPECIAL NOTE: Counts toward Senior English credit. This course helps student to understand philosophies and functions of the media, through hands-on work and other related academic assignments. The course focuses heavily on the production process (from idea to written word/script to finished project). Instruction includes use of recording equipment, digital still/video cameras, film/sound editing, advertising, “Web 2.0 tools”, Adobe CS5, music/video production, Google Apps, movie interpretation, homeroom video production, stop motion animation, and green screen production.</td>
<td>Arts, Audio/Video Technology, and Communications/Education and Training/Information Technology/Science, Technology, Engineering, and Mathematics</td>
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<tr>
<td><strong>Senior English #209A/B</strong></td>
<td>SPECIAL NOTE: Recommended for four-year college-bound seniors. Senior English encompasses the fourth full-year of English study for the college-bound student at Mukwonago High School. Students will refine skills that include vocabulary building, writing strategies, and critical analysis. Anchor texts come from classic British Literature ranging from the Anglo-Saxon period through the modern (a sampling includes <em>Beowulf</em>, <em>Hamlet</em>, and 1984.) Book clubs extend the anchor genres and include a study of modern American heroes and classic fantasy heroes; modern novels or nonfiction that parallel Hamlet themes; British classic and modern gothic or comedy of manners novels (for example, <em>Frankenstein</em> or <em>Pride and Prejudice</em>); and modern British novels or dystopian selections (for example, Ian Fleming’s 007 novels or <em>War of The Worlds</em>.) Group and individual multimedia presentations constitute some of the assessments. Additional units include approaches to college application and scholarship essays and a formal research paper incorporating MLA documentation.</td>
<td>Education and Training</td>
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<tr>
<td><strong>Sophomore English #241A/B</strong></td>
<td>Sophomore English focuses upon the continued development of language arts skills presented in Freshman English. Critical reading, thinking, and writing abilities will be assessed using whole-class memoirs, genres evaluations, and independent reading units. Students will utilize book clubs and choice readings to participate in interpersonal conversations with assessments geared toward speaking and listening. Areas that receive emphasis in Sophomore English include engaging in grammar and vocabulary, developing advanced composition skills, critically analyzing authorial decisions, and reading literature with an emphasis on everyday nonfiction. Whole-class titles include <em>Night</em> and <em>To Kill A Mockingbird</em>. Some supplementary readings, including memoirs and novels, will be assigned using student choice.</td>
<td>Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications</td>
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<tr>
<td><strong>Speech (Oral Communication)</strong></td>
<td>SPECIAL NOTE: Counts towards Senior English credit. Speech is a one-semester course in the fundamentals of public speaking. The emphasis is on the development of individual speaking ability in a variety of speech situations. Areas of study will include building self-confidence, planning and preparation, organizing ideas, research, the communication process, listening skills, audience etiquette, and style and presentation. Students will prepare and deliver speeches to inform, to persuade, to demonstrate and to entertain. Famous historical speeches/speakers will be studied.</td>
<td>Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications</td>
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<td>Grades: 9, 10, 11, 12</td>
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<td>Credit: .5 credit</td>
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<td>Length: Semester</td>
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<td>Prerequisites: None</td>
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<td>Additional Fees or Required Materials: None</td>
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<td><strong>Sports Literature In Society</strong></td>
<td>SPECIAL NOTE: Counts toward Senior English credit. Sports Literature will examine the unique relationship between sports, individuals, and society through literature by contemporary authors, columnists, and other media. Readings in the course shall be high-interest and thought-provoking, as well as connecting to collegiate and professional sports in Wisconsin. Students will engage an array of required readings as well as independent and limited choice reading pieces. Text selections will include information text, fiction (short stories and novels), poetry, biographies, and commentaries. Writing in the course will include argumentative, informative, and narrative pieces.</td>
<td>Arts, Audio/Video Technology, and Communications/Science, Technology, Engineering, and Mathematics</td>
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<td>Grades: 9, 10, 11, 12</td>
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<td>Additional Fees or Required Materials: None</td>
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<td><strong>Technical Communications</strong></td>
<td>In order to prepare students for careers in technical fields such as Engineering, Information Technology, and Business, students will learn to communicate effectively across a wide range of mediums. Students will work to enhance their reading, writing, public speaking, and social media skills to solve problems in realistic business settings.</td>
<td>Arts, Audio/Video Technology, and Communications/Science, Technology, Engineering, and Mathematics</td>
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<td>Grades: 11, 12</td>
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<td>Prerequisites: None</td>
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<td><strong>The Bible as in Literature</strong></td>
<td>SPECIAL NOTE: Counts towards Senior English credit. This course is designed to give the student knowledge of, not faith in, some parts of the Bible. Major emphasis will be placed on the Old Testament. The student will become familiar with some of the stories, characters, and themes in the Bible, as well as vocabulary and Biblical allusions. Several papers and exams will be required. From time to time, students will work with their own Bible to draw comparison to and contrast with the Biblical passages in the course textbook; any Biblical translation/version will be acceptable.</td>
<td>Arts, Audio/Video Technology, and Communications/Business Management and Administration/Education and Training/Human Services</td>
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<td>Grades: 9, 10, 11, 12</td>
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## 20th Century Novels: Dystopias, Science Fiction, and Gothic Writings  #236

**Description:** SPECIAL NOTE: Counts toward Senior English credit. The course offers a seminar approach for reading/discussion of novels. Updated reading lists will be posted on the district curriculum website. Students can expect nightly reading assignments as well as reading comprehension and analysis study guides, tests and quizzes. Course work also includes the literary essay, short answer and essay examinations, literal plot examination, and anticipatory and interpretive examination. All writing will be word processed.

**Most Applicable Career Cluster(s):**
Education and Training

| Grades: 11, 12 |
| Transcribed: No |
| Credit: .5 credit |
| Length: Semester |
| Prerequisites: None |
| Additional Fees or Required Materials: None |

## Yearbook Lab  #226Y

**Description:** The yearbook lab allows students to practice layout, photography, reporting, computer, and editorial skills to produce the school yearbook. Team concept, organizational skills, leadership ability, strong work ethic, and the ability to meet deadlines are necessary. SPECIAL NOTE: Seniors in major editorial positions may earn up to (1) elective credit with the instructor’s approval for one full year of daily participation. All other students may receive (1/2) elective credit with the instructor’s approval for a full year of daily participation. Credits will not be prorated for less than a full year of work and will appear on the June report card.

**Most Applicable Career Cluster(s):**
Arts, Audio/Video Technology, and Communications/Business Management and Administration/Information Technology/Human Services

| Grades: 9, 10, 11, 12 |
| Transcribed: No |
| Credit: .5 credit |
| Length: Year |
| Prerequisites: Consent of instructor |
| Additional Fees or Required Materials: None |

## World Perspectives in Literature  #240

**Description:** SPECIAL NOTE: Counts toward Senior English credit. World Perspectives in Literature will focus on cultures from around the world through several genres of literature: novels, plays, poetry, short stories, and non-fiction. The course will challenge students to broaden their understanding of the diversity of cultures in the global community through the written and spoken word. This will include an array of required readings as well as independent and limited choice reading pieces. Students will engage in academic discussion and written reflections, analyzing the texts and the cultures that produced them. The capstone project is to choose an unexplored cultural piece of literature, research its culture of origin, and present as a final product. This ½ credit course is a Global Education Certificate approved course.

**Most Applicable Career Cluster(s):**
Education and Training

| Grades: 10, 11, 12 |
| Transcribed: No |
| Credit: .5 credit |
| Length: Semester |
| Prerequisites: None |
| Additional Fees or Required Materials: None |
Family and Consumer Science
Course Offerings and Course Sequence

Grades 9 & 10
- Human & Childcare Services *WCTC
- Future Parenting
- Independent Living
- Childcare/Fashion Co-op *WCTC

Grades 11 & 12
- Childcare/Fashion Co-op *WCTC/Capstone

ADDITIONAL COURSES
- Supplemental courses that do not have prerequisites. Suggested courses (junior-senior) year.
- *CAPSTONE COURSE = Requires ACCT Certificate earned in HCCS and CG courses.

ADDITONAL COURSES
- Child Guidance *WCTC

*WCTC = 3 Credits for HCCS and CG 1 Credit for Childcare Co-op

Grades 11 & 12
- Fashion Analysis
- Childcare/Fashion Co-op *Capstone

Childcare & Education
- Childcare/Fashion Co-op *WCTC/Capstone

DIY: Design it Yourself
- Interior Design *WCTC
- Fashion Analysis
- Childcare/Fashion Co-op *Capstone

Design
- Childcare / Fashion Co-op
- *WCTC = May receive transcripted credit - provides college credit at post-secondary schools

*CAPSTONE COURSE = Requires at least 1/2 credit in design courses before senior year.

Foodservice & Hospitality
- Culinary Skills *WCTC
- Baking for Culinary Arts *WCTC
- Food Service & Hospitality *Capstone

- Global Cuisine
- Food and Nutritional Science
- Co-op OR Youth Apprenticeship

*WCTC = Baking for Culinary Arts = 2 WCTC credits
Culinary Skills = 3 WCTC credits

*ADDITIONAL COURSES = Supplemental courses that do not have prerequisites. They must be taken during years
*CAPSTONE COURSE = Requires at least 1 FULL credit in food service courses.

Enrichment/Complementing Courses to Pathways
Childcare
- Psychology/AP Psychology
- Sociology
- Intro to Business & Marketing
- Food For Wellness
- Unified Physical Education & Art
- Spanish

Applied Design
- All Math Classes
- Computer Graphics
- Intro to Engineering Design
- Architectural Drafting
- Entrepreneurship
- Spanish

Culinary & Hospitality
- Entrepreneurship
- Intro to Business & Marketing
- Accounting Principles
- Marketing Communications
- Foreign Language
Family and Consumer Science
Course Offerings and Course Sequence

**Grades 9 & 10**
- Principles of Biomedical Science
- Health Care Professions

**Grades 10 & 11**
- Human Body Systems (see course catalog for pre-reqs)
- Medical Terminology
- Intro to Sports Medicine

**Grades 11 & 12**
- Medical Interventions (see course catalog for pre-reqs)
- Health Care Services

**Health Science Enrichment/Complementing Courses to Pathways**
- Biology/Chemistry
- Psychology/AP Psychology
- Advanced Health
- AP Statistics
- Foreign Language

**Family & Consumer Science Capstone / Healthcare Academy Capstone (2021)**

**Youth Apprenticeship (YA)**
- Must be enrolled in content related course
- See Mrs. Peterson (Rm 271) for more details

**Certified Nursing Assistant (CNA)**
- Options for Certification. See Mrs. Peterson (Rm 271) for more details

**Athletic Training Program**
- Participation options for Fall, Winter & Spring sports. See Mrs. Peterson (Rm 271) for more details

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## Some Career Options:

### Entry level with no formal higher education
- Dietetic Aide
- Hospital/Facility Clerk
- Food Service Admitting

### With Associates Degree or formal Certification
- Home Health Aide
  - Ultrasound Tech
  - Dialysis Tech
  - Paramedic/EMT
- PT Aide
  - Medical Assst
  - Medical Tech
- CNA
  - Med Tech
  - Dental Hygienist
- Radiological Tech
  - Surgical Tech
  - Pharmacy Assst
- For those with Bachelors Degrees or higher
  - Athletic Trainer
  - Occupational Therapist
  - Nurse Practitioner
  - Rehabilitation Counselor
  - Physicians Asst

### Entry level with no formal higher education
- Child Care Asst
- Crossing Guard
- Retail Associate
- Personal Shopper

### With Associates Degree or formal Certification
- Preschool Asst
  - Financial Planning Assst
  - Special Ed Aide
- Elementary School Aide
  - Tax Preparer
- Early Childhood Teacher
  - Investment Advisor
  - Neonatal Physician
  - Pediatirc Care
- Financial Counselor
  - Social Worker
  - Elementary Teacher
- Special Ed Teacher
  - Tax Accountant
  - Residential Designer

### Entry level with no formal higher education
- Floral Designer
- Retail Sales
- Visual Merchandiser
- Showroom Sales
- Sample Maker

### With Associates Degree or formal Certification
- Interior Designer
  - Fashion Designer
  - Textile Designer
- Graphic Designer
  - Commercial Designer
- Rendering Specialist

### Entry level with no formal higher education
- Server
- Bell Hop
- Sous Chef
- Food Equipment Tech
- Food Scientist

### With Associates Degree or formal Certification
- Host/Hostess
- Busser/Dishwasher
- Baker/Pastry Chef
- Hotel/Restaurant Manager
- Quality Control Inspector

### For those with Bachelors Degrees or higher
- Prep Chef
- Butcher
- Executive Chef
- Bartender
- Food/Safety Inspector

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[https://wicareerpathways.org/Students/Clusters/HealthScience](https://wicareerpathways.org/Students/Clusters/HealthScience)

[https://wicareerpathways.org/Students/Clusters/HumanServices](https://wicareerpathways.org/Students/Clusters/HumanServices)

[https://wicareerpathways.org/Students/Clusters/Hospitality-Tourism](https://wicareerpathways.org/Students/Clusters/Hospitality-Tourism)
**FAMILY AND CONSUMER SCIENCE**

**FACS**
◆ **Baking For Culinary Arts**  
#328

**Description:** Students will develop an understanding of the science of baking, ingredients, equipment and procedures. Students will build a repertoire of basic baking techniques to more advanced skills in baking. Topics/Syllabus include – Professional and Careers in baking, Tools and Equipment in the bakeshop, Ingredients in the Bakeshop, Mise En Place, Quick Breads, Artisan and Enriched Yeast Breads, Laminated Doughs, Cookies and Brownies, Pies and Tarts, Pastry and Dessert Components, Cakes and Icings, Custards, Creams, and Sauces, Ice Cream and Plating Techniques.

**Most Applicable Career Cluster(s):**  
Agriculture, Food, and Natural Resources/Health Science/Hospitality and Tourism

**Grades:** 10, 11, 12  
**Transcribed:** Yes  
**Credit:** .5 credit at MHS and 3 transcripted credits through WCTC  
**Length:** Semester  
**Prerequisites:** Food for Wellness or Intro to Culinary Arts  
**Additional Fees or Required Materials:** None

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**FACS**
◆ **Childcare Coop**  
#326CA/CB  
◆ **Fashion Coop**  
#326FA/FB

**Description:** SPECIAL NOTE: Students do not need to work to get class credit.

Childcare/Fashion Coop is a one-year course for students with an interest in a career path focusing on Child Development or Fashion Merchandising. Students earn one credit in the classroom implementing core employability skills desired to be successful in guiding and educating today’s youth or advancing in the retail management field. Students can earn two additional work credits by following one of the Career Pathways below.

**Child Development Coop:** The Child Development competency areas covered include personal/interpersonal skills, applying age-appropriate practices, creating activities relevant and educationally meaningful to children, cultivating positive relationships, creating a physically and emotionally safe environment, adhere to food and nutrition guidelines, examine health and safety regulations, and accommodations for special needs of children.

**Co-op Option:** Two additional credits may be earned by working at a licenses Child Care Center for the entire school year meeting specific DPI Skill Standards. These students may earn their Child Care Teacher Certificate through DPI SPECIAL NOTE: Work release students may earn two transcripted credits from WCTC can be earned through completion of the Child Care Teacher Certificate (Early Childhood Education Practicum I)

**Fashion Coop:** The Fashion Merchandising competency areas covered include economic foundations, communication and interpersonal skills, professional product handling, loss of safety procedures, and competitive advances.

**Co-op Option:** Two additional credits may be earned by working Retail Management focusing on Fashion Apparel for the entire school year. DPI Skills Standards will be followed.

*Students must provide their own transportation for work to be released early from the school day. This is a great way to see if a career field is right for you!

**Most Applicable Career Cluster(s):**  
Agriculture, Food, and Natural Resources/Business Management and Administration/Education and Training/Hospitality and Tourism

**Grades:** 12  
**Transcribed:** Yes  
**Credit:** 3.0 credits w/work 1.0 credit for class  
**Length:** Year  
**Prerequisites:** Child Care students need A.C.C.T. certificate; Design students need to have completed Fashion Analysis  
**Additional Fees or Required Materials:** 1 ½ inch black 3-ring binder

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**FACS**
◆ **Child Guidance**  
#304

**Description:** Encounter the joys of children from birth through six years of age. Explore how they learn through their developmental stages during infancy, toddler years, preschool, and kindergarten. In this course you will become the care-taker/teacher of preschool-aged children during the in-school playschool experience. Throughout the semester you will research, select, and implement age-appropriate activities in the areas of math, science, language, art, music, and community to use in your curriculum planning and lessons. Reflection is a key component of bettering oneself.

**SPECIAL NOTES: 1. Students who enroll in both Child Guidance and Human & Child Care Services can earn the Assistant Child Care Teacher certificate through DPI. 2. Students may also earn three credits to WCTC after successfully completing both classes as referenced above. What a great start to building your college and job applications. Note: This course comes under State Statute 118.019, (Human Growth and Development Instruction).**

**Most Applicable Career Cluster(s):**  
Human Services
**Culinary Skills** #341

**Description:** SPECIAL NOTE: Prerequisite for Food Service Hospitality Co-op. This course includes basic classroom and laboratory instruction needed to develop knowledge, understanding of basic food principles and nutrition, and service skill for use in the home and food services industry. The course content centers around the following duty areas: promoting food service preparation management using the decision-making process; meeting basic needs by applying nutrition concepts; meeting health and safety needs by planning; preparing and service preparation management using the decision-making process; meeting basic needs by applying nutrition concepts; meeting health and safety needs by planning; preparing and serving food; maximizing sources when planning/preparing/serving food; promoting hospitality in food practices; and (analyzing individual and family nutritional needs) in relation to change. Information related to careers in foods and nutrition is incorporated throughout the course. Catering activities serve as an important and required lab experience for students in this class. Students who complete this course can earn WCTC transcripted credits for Nutrition for Culinarian (316-115) 3 credits.

**Most Applicable Career Cluster(s):** Agriculture, Food, and Natural Resources/Hospitality and Tourism

**Grades:** 11, 12

**Transcripted:** Yes

**Credit:** .5 credit

**Length:** Semester

**Prerequisites:** Either Global Foods, Food for Wellness, Intro to Culinary Arts

**Additional Fees or Required Materials:** None

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**DIY: Design it Yourself** #342

**Description:** Interested in process and product design? If so, enroll now to learn and apply the endless possibilities of textiles in design. We will use guided project based learning to focus on choosing fabric and textiles for an entrepreneurial project you research, design, and market. Can't wait to see what you create!

**Most Applicable Career Cluster(s):** Arts, Audio/Video Technology, and Communications/Education and Training/Human Services/Science, Technology, Engineering, and Mathematics

**Grades:** 9, 10, 11

**Transcripted:** No

**Credit:** .5 credit

**Length:** Semester

**Prerequisites:** Fashion or Interior Design

**Additional Fees or Required Materials:** Possible material cost based on project chosen

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**Fashion !** #320

**Description:** Is Fashion Your Passion? Students enrolled in Fashion Analysis will apply their creative talents toward the fashion industry through interpreting the elements and principles of design. By determining why people wear clothes you can forecast trends and coordinate fashions for a variety of body types, personalities, and color seasons. Your fashion vocabulary will flourish as we identify various styles, details, and designs. At one point you become the designer in a T-shirt project.

**Most Applicable Career Cluster(s):** Arts, Audio/Video Technology, and Communications/Business Management and Administration/Marketing

**Grades:** 10, 11, 12

**Transcripted:** No

**Credit:** .5 credit

**Length:** Semester

**Prerequisites:** None

**Additional Fees or Required Materials:** None
### FACS
#### Hospitality/PROSTART

**#3401A/B**

**Grades:** 11, 12  
**Transcripted:** Yes  
**Credit:** 3 credits  
**Length:** Year  
**Prerequisites:** Culinary Skills (can take during same year)  
**Additional Fees or Required Materials:** None

**Description:** SPECIAL NOTE: This is the Senior Capstone component for the foodservice and hospitality career path. Learn about the exciting, ever-changing world of travel, hospitality and foodservice industry! A complete understanding of the foodservice and lodging industry will be discovered by diving into industry trends and development, food and beverage operations and employment opportunities within the industry. Weekly labs will be based on unit themes and styles of hospitality establishments. Students who complete the course successfully will be eligible to earn PROSTART industry certification.

**Most Applicable Career Cluster(s):**  
Agriculture, Food, and Natural Resources/Hospitality and Tourism

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### FACS
#### Future Parenting

**#336**

**Grades:** 11, 12  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** None  
**Additional Fees or Required Materials:** None

**Description:** Children are great imitators, so give them something amazing to mimic. Students will discuss and practice parenting skills focusing around prenatal care, nutrition, health, safety, guidance, and development. Regardless of whether students will ever become parents themselves, it is essential that they learn the skills involved in having good parent-child relationships. Students are given the opportunity to care for a “Real Care Baby” during on weekend of the semester. Note: This course comes under State Statute 118.019, (Human Growth and Development Instruction). “Children are the world’s most valuable resource and its best hope for the future.” John F. Kennedy

**Most Applicable Career Cluster(s):**  
Education and Training/Human Services

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### FACS
#### Global Cuisine

**#335**

**Grades:** 10, 11, 12  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** None  
**Additional Fees or Required Materials:** None

**Description:** Explore how geographic location, demographics, food availability, culture and tradition impact the food choices of people around the world, including the regions of the United States. Meal planning and cooking skills will be developed through preparation of a wide variety of recipes representing most continents. Students will be able to prepare and taste foods while developing an appreciation of their origin. NOTE: typing for projects required.

**Most Applicable Career Cluster(s):**  
Agriculture, Food, and Natural Resources/Hospitality and Tourism

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### FACS
#### Health Care Professions

**#3370**

**Grades:** 9, 10, 11, 12  
**Transcripted:** Yes-3 College Credits  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** None  
**Additional Fees or Required Materials:** None

**Description:** Ever thought of being a Doctor or Physical Therapist? Maybe a Radiologist or Veterinarian or Nurse? Introduction to Health Professions I is a semester long course that is designed to familiarize students with the various careers in the medical professions. Topics include: healthcare career clusters, health care systems and trends, job skills and demands including problem solving skills, accepting personal responsibility and self-management, environmental safety and infection control, medical ethics and legal responsibilities, professionalism and employability skills, cultural awareness and diversity in health care, with medical terminology and hands-on-practicums. Participating in a job shadow of health care professionals is required.  
**NOTE:** You can, but do not have to, participate in the Health-Youth Apprenticeship program while taking this course. Receiving .5 credit for the course and one credit for on-the-job experience. Students are responsible for their own transportation to and from employment. See the Health Science Youth Apprentice Career Planning Guide for course selection options. Students can be release from 6th/7th hour.

**This course is offered for Transcripted credit through WCTC.**

**Most Applicable Career Cluster(s):** Health Science

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FACS

◆ Health Care Services
#317/318

**Description:** Want to dive deeper into the Health Career Pathways? Through this course we will look closer at specifics of your desired career paths. Students will work with diagnostic agents and procedures. Expand their use of Medical Terminology and abbreviations. Explore the basics of radiology and x-ray film processing. Components of Forensic Science will be explored such as blood spatter, fiber analysis and fingerprinting. Therapeutic agents, uses, dosages, side effects, prescriptions will be understood and explored in relation to health science. Students will get a deeper understanding of cellular biology and genetics.

**NOTE:** This is a senior-level course within the Health Science Sequence. This course may be taken with or without the work release component (Health Co-op or Youth Apprenticeship).

**YOUTH APPRENTICESHIP/HEALTH CO-OP:** Students participating in the work release option you will receive 1 credit for the course and one/two credit for on-the-job experience. Students are responsible for their own transportation to and from employment. Students can be released from 7th/8th hour.

**Most Applicable Career Cluster(s):**
Health Science

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FACS

◆ Human and Childcare Services
#332

**Description:** Do your future career or personal plans involve working with people in a variety of ages and stages? Do you realize development continues through the life span? Through this course you will study child/human development in the areas of physical, cognitive, social, and emotional well-being. Class participation encompasses in-school and out-of-school observations, Activity Fridays, and operating an in-school playschool for children ranging in age from six weeks through five years old.

**SPECIAL NOTES:** 1. Students who enroll in both Child Guidance and Human and Child Care Services can earn the Assistant Child Care Teacher certificate through DPI. 2. Students may also earn three credits to WCTC after successfully completing both classes as referenced above. What a great start to building your college and job applications. Note: This course comes under State Statute 118.019, (Human Growth and Development Instruction).

**Most Applicable Career Cluster(s):**
Education and Training/Human Services

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FACS

◆ Independent Living
#338

**Description:** Are you ready to be on your own? Learn how! Can you cook a delicious meal? Hem your jeans? Ace a job interview? Does your money stretch until your next paycheck? Know how to get, pay, and use insurance? Can you get along with your friends, family and future roommates? Have you thought about when you will REALLY be ready to start a family? Are you ready to choose and decorate your first home away from home? Are you ready? This class is for you!

**Most Applicable Career Cluster(s):**
Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications
### FACS
#### Interior Design
**#339**

**Description:** Do you have an eye for design? Interior Design is a course that will broaden your design fundamentals. Professional use of design resources, board construction techniques, and portfolio development will showcase your knowledge of the elements and principles of design. Design and communication skills will improve through the completion and presentation of a variety of design-related projects. A one-inch three-hole binder is needed to create a working portfolio of course materials. WCTC offers three transcripted credits to Interior Design students.

**Most Applicable Career Cluster(s):** Architecture and Construction/Arts, Audio/Video Technology, and Communications/ Education and Training/Human Services

<table>
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<tr>
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<th>Credit: .5 credit</th>
<th>Length: Semester</th>
<th>Prerequisites: None</th>
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</thead>
<tbody>
<tr>
<td>Additional Fees or Required Materials: A one-inch three-hole binder is needed for their portfolio.</td>
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### FACS
#### Introduction to Culinary Arts
**#329**

**Description:** Begin exploring the beginning content for careers in the foodservice industry. Life skills related to food preparation techniques are introduced and put into practice in the lab. Units covered include safety and sanitation, basic kitchen procedures such as knife skills, introductory baking techniques and cooking methods. Throughout the semester students will work with a variety of food groups as a start to their culinary future!

**Most Applicable Career Cluster(s):** Agriculture, Food, and Natural Resources/Health Science/Hospitality and Tourism

<table>
<thead>
<tr>
<th>Grades: 9, 10, 11, 12</th>
<th>Transcribed: No</th>
<th>Credit: .5 credit</th>
<th>Length: Semester</th>
<th>Prerequisites: None</th>
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<tbody>
<tr>
<td>Additional Fees or Required Materials: None</td>
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### FACS
#### Introduction to Sports Medicine
**#3379**

**Description:** Ever thought of a career in Sports Medicine? Maybe as an Athletic Trainer, Physical Therapist or Nutritionist? This course introduces you to the necessary skills to pursue careers in Athletic Training, Physical/Occupational Therapy, Personal Training, Nutritionists, and other related health careers. Students will learn First Aid, basic taping and bandaging techniques, and the principles used in the prevention, care and rehabilitation of athletic injuries. Anatomy, physiology, exercise and nutrition will be covered as in relation to Sports Medicine. This course is recommended for any student wishing to participate as a student athletic trainer.

**Most Applicable Career Cluster(s):** Health Science

<table>
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<th>Credit: .5 credit</th>
<th>Length: Semester</th>
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<td>Additional Fees or Required Materials: None</td>
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### FACS
#### Medical Terminology
**#147T**

**Description:** This course provides students who are interested in medical careers the opportunity to learn terminology necessary in all areas of the medical field. Students will learn to spell, pronounce, and define common medical terminology and abbreviations. Medical careers and medical field current events will be explored. Some assignments are required to be keyed. WCTC transcripted credits available for participating student in this course with a grade of 79% or above.

**Most Applicable Career Cluster(s):** Health Science

<table>
<thead>
<tr>
<th>Grades: 11, 12</th>
<th>Transcribed: Yes</th>
<th>Credit: .5 credit</th>
<th>Length: Semester</th>
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<tr>
<td>Additional Fees or Required Materials: None</td>
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### Youth Apprenticeship (YA)  #YA WORK EXP

**Grades:** 11, 12  
**Transcripted:** No (State Recognized Certificate)  
**Credit:** 1.0 credit per semester  
**Length:** Year  
**Prerequisites:** Enrolled in a content related class for duration of Apprenticeship  
**Additional Fees or Required Materials:** None

**Description:** Wisconsin's Youth Apprenticeship program is a part of a statewide School-to-Work initiative. It is designed for high school students who want hands on learning in an occupational area at a worksite along with classroom instruction. This one or two year elective program combines academic and technical instruction with mentored on-the-job learning. This is a paid work experience and students will earn high school credit and a state certificate. It is possible that students could earn postsecondary credit as well. Students completing a one year Youth Apprenticeship will be required to fulfill 450 work hours, and a two year Youth Apprenticeship will require 900 work hours.

**Content Areas:**  
Agriculture, Food & Natural Resources  
Hospitality, Lodging & Tourism  
Health Science

### FACS & SCIENCE  
#### PLTW: Principles of Biomedical Science  
#3372A/B

**Grades:** 9, 10, 11, 12  
**Transcripted:** No (SE-Science Equivalent)  
**Credit:** 1.0 credit (may count for science or CTE credit)  
**Length:** Year  
**Prerequisites:** None  
**Additional Fees or Required Materials:** None

**Description:** The principles of Biomedical Science (PBS) course provides an introduction to biomedical science through exciting hands-on projects and problems. Students investigate concepts of biology and medicine as they explore health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They will determine the factors that led to the death of a fictional woman as they sequentially piece together evidence found in her medical history and her autopsy report. Students will investigate lifestyle choices and medical treatments that might have prolonged a woman’s life and demonstrate how the development of disease is related to changes in human body systems. This PLTW course will allow the student to earn college credit at a number of universities. By earning a passing score on the End of Course Assessment (EOC) a student can submit for college credit. Because of the number of options available, please see your course instructor or counselor for more details on how to take advantage of this great opportunity.  
*This course can be taken to fulfill the third credit of science for graduation.

**Most Applicable Career Cluster(s):** Education and Training / Human Services / Science, Technology, Engineering, and Mathematics

### FACS & SCIENCE  
#### PLTW: Human Body Systems  
#3373A/B

**Grades:** 10, 11, 12  
**Transcripted:** No (SE-Science Equivalent)  
**Credit:** 1.0 credit (may count for science or CTE credit)  
**Length:** Year  
**Prerequisites:** Principles of Biomedical Science, a grade of “C” or better in biology or chemistry  
**Additional Fees or Required Materials:** None

**Description:** In the Human Body Systems (HBS) course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases, and often play the role of biomedical professionals to solve medical mysteries. This PLTW course will allow the student to earn college credit at a number of universities. By earning a passing score on the End of Course Assessment (EOC) a student can submit for college credit. Because of the number of options available, please see your course instructor or counselor for more details on how to take advantage of this great opportunity.  
*This course can be taken to fulfill the third credit of science for graduation.

**Most Applicable Career Cluster(s):** Education and Training / Human Services / Science, Technology, Engineering, and Mathematics
Description: As they follow the life of a fictitious family, students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical device design and diagnostics. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role that scientific thinking and engineering design play in the development of interventions of the future.

This PLTW course will allow the student to earn college credit at a number of universities. By earning a passing score on the End of Course Assessment (EOC) a student can submit for college credit. Because of the number of options available, please see your course instructor or counselor for more details on how to take advantage of this great opportunity.

Most Applicable Career Cluster(s): Education and Training / Human Services / Science, Technology, Engineering, and Mathematics
Description: In Food Science, you will experiment with chemical factors and ingredients that change the nutritional and chemical outcomes of food products. Students will be able to evaluate recipe ingredients and determine their purpose through multiple kitchen experiences. For example you will create an apple pie without using apples with the knowledge of food science principles. Successful completion of this course can earn 0.5 credits of science towards MHS graduation requirements.

Most Applicable Career Cluster(s): Agriculture, Food, and Natural Resources / Hospitality and Tourism / Science, Technology, Engineering, and Mathematics
Math Department
Course Offerings and Course Sequence

Math Skills A
#425 A/B

Algebra (Sem 1)
#415 A/B

Algebra I
#410 A/B

* Introduction to Data Science and Analytics I
#412

* Introduction to Data Science and Analytics II
#413

*Can be taken for Math Credit

Math Connections
430 A/B

Algebra (Sem 2)
#411 A/B

Geometry
#420 A/B

Honors Geometry
#423 A/B

*Exploring Computer Science #1659 A/B

Honors Adv. Algebra
#422 A/B

Transition to College Math #427 A/B

Pre-Calculus
#424 A/B

Advanced Algebra
#409 A/B

FST (Functions, Stats, and Trig)
#419 A/B

Math Connections
430 A/B

Math Connections
430 A/B

Pre-Calculus
#424 A/B

AP Statistics
#408 A/B

AP Calculus (AB)
#406 A/B

AP Calculus (BC)
#407 A/B

Calculus 3
#4089 A/B

Math Skills A
#425 A/B

Algebra (Sem 1)
#415 A/B

Algebra I
#410 A/B

* Introduction to Data Science and Analytics I
#412

* Introduction to Data Science and Analytics II
#413

*Can be taken for Math Credit

MHS Co-Curricular Club: Robotics

https://wicareerpathways.org/Students/Clusters/Finance


Some Career Options:
Entry level with no formal higher education
Cashier
Book Keeper
Teller
Data Entry

With Associates Degree or formal Certification
Accountant
Insurance Agent
Computer Programmer
Claims Adjuster
Network Specialist

For those with Bachelor's Degrees or higher
CPA
Astronomer
Actuary
Astronomer
Computer Programmer
Physicist
Engineer
Teacher
Banker
Professor
Astronaut
Economist

https://wicareerpathways.org/Students/Clusters/InformationTechnology


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The math department believes that all students planning to pursue any postsecondary education should take math each year of high school, earning at least 4 math credits for the following reasons:

1. Post-secondary institutions often require students to take a math placement exam at the end of the student’s senior year and students do better on these exams if they have taken 4 years of high school math.
2. The ACT includes Algebra 1, Geometry, Algebra 2, and Trigonometry topics.
3. Many college majors require a statistics course.
4. Admission officers are often looking for four years of mathematics, or at minimum that a student has completed Algebra 2. Students should speak with their current math teachers, special education teachers, guidance counselors, and GT Coordinator to determine the most appropriate math options.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Most Applicable Career Cluster(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Advanced Algebra</strong></td>
<td>Advanced Algebra studies a variety of topics, from lines to logarithms, from quadratic equations to conic sections, from systems to statistics, from matrices to trigonometry. It contains the mathematics that educated people around the world use in conversation and that colleges want or expect you to have studied. The properties of numbers, graphs, expressions, inequalities, and functions are ideas which run throughout the course. All students are required to have a scientific calculator.</td>
<td>Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications</td>
</tr>
<tr>
<td><strong>Algebra</strong></td>
<td>This course integrates the study of mathematical topics including algebra, geometry, probability, and statistics. Problem solving and applications involving the ideas will be stressed. Students will describe patterns, work with formulas, discuss unknowns in problems, and graph relationships. The course is designed to help students to be able to learn mathematics on their own, so that they will be able to deal with the mathematics they will see in newspapers, magazines, on television, on any job, and in school. Scientific calculators are required.</td>
<td>Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications</td>
</tr>
<tr>
<td><strong>Algebra Semester One (Year)</strong></td>
<td>This course covers half of the material in Algebra I over the course of a school year including statistics, probability, problem solving, logic, 2-dimensional coordinate graphing and geometry. Students can complete Algebra Semester I and earn another math credit by taking Algebra Semester 2 the following year. Students must successfully pass the second semester of Algebra Semester I before they may take Algebra Semester 2 Year. If a student takes Pre-Algebra or Math Skills in high school and does not complete these classes, they cannot take Algebra Semester 1 unless they do so. Scientific calculators are required.</td>
<td>Architecture and Construction/Business Management and Administration/Education and Training/Finance</td>
</tr>
</tbody>
</table>
### MATHEMATICS

**◆ Algebra Semester Two (Year)**

**#411A/B**

**Description:** This course follows both semesters of Algebra Semester 1 (Year) - #415 and covers the 2nd half of the Algebra book. It is specifically designed to prepare students for Geometry and Adv. Algebra. It includes algebra topics involving graphing, polynomials, square roots, exponents, solving linear and quadratic equations, and systems. It also includes topics from geometry, probability, statistics, logic, and problem solving. A student successfully completing this course has earned an algebra credit. Scientific calculators and graphing notebooks are required of all students.

**Most Applicable Career Cluster(s):**
Science, Technology, Engineering, and Mathematics

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### MATHEMATICS

**◆ AP Calculus-AB**

**#4069A/B**

**Description:** This course presents a comprehensive treatment of functions, limits, continuity, derivatives, and integrals of one variable developing definitions and formulas. In depth applications of the derivative in slope, rate of change, related rates, and maximum/minimum problems are explored. Applications of the integral are dealt with in area under a curve, volumes of revolution, volumes by slicing, and motion. This course will prepare students for an advanced placement exam on first semester college calculus in the spring. A graphics calculator is required. (See your present instructor for a recommendation.)

**Most Applicable Career Cluster(s):**
Finance/Manufacturing/Science, Technology, Engineering, and Mathematics/Transportation, Distribution, and Logistics

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### MATHEMATICS

**◆ AP Calculus-BC**

**#4079A/B**

**Description:** This course reviews all material presented in AP Calculus(AB). It further presents extensive material on advanced integration techniques of algebraic and transcendental functions and their applications. An overview of differential equations, polar equations and vector modeling is presented with emphasis on technique and application. Limits and convergence of infinite sequences and series along with Taylor polynomials and power series are covered as well. Students will be exposed to analyzing multiple representations of information including numerical, graphical, algebraic and verbal. A graphics calculator is required. (See your present instructor for a recommendation.) Calculus BC will prepare students to take the advanced placement test on two semesters of college calculus in the spring.

AP Calculus BC is also offered as a college-level, dual-enrollment class through the University of Wisconsin-Green Bay. If the course is successfully completed (generally a B- or better) the student will earn a transcript from UW-Green Bay with 3 credits of transferable credit to the college they attend. The majority of colleges and universities will accept these credits, although a few private institutions may not. There is a fee for the dual enrollment course.

**Most Applicable Career Cluster(s):**
Finance/Manufacturing/Science, Technology, Engineering, and Mathematics/Transportation, Distribution, and Logistics
### AP Statistics

**Description:** AP Statistics covers 4 major themes. Students explore data by creating graphs and computing regression lines. Students learn to plan a study, conduct a survey, collect data, and generalize results. Students study probability topics such as independent events, random variables, binomial probabilities, the normal distribution, t-distribution and sampling distributions. During the last theme of the course, statistical inference, students learn to compute confidence intervals and do tests of significance. This course will prepare students for the AP Exam covering first semester college statistics. A TI-83+ or TI-84+ graphics calculator and a graphing notebook are required.

**Most Applicable Career Cluster(s):**
- Agriculture, Food, and Natural Resources
- Architecture and Construction
- Arts, Audio/Video Technology, and Communications

### Calculus 3

**Description:** This course is designed to develop the topics of multivariate calculus. Emphasis is placed on multivariate functions, partial derivatives, multiple integration, solid analytical geometry, vector valued functions, and line and surface integrals. Students will be exposed to analyzing multiple representations of information including numerical, graphical, algebraic and verbal. Calculus 3 is also offered as a college-level, dual-enrollment class through the University of Wisconsin-Green Bay. If the course is successfully completed (generally a B- or better) the student will earn a transcript from UW-Green Bay. The majority of colleges and universities will accept these credits, although a few private institutions may not. There is a fee for the dual enrollment course.

**Most Applicable Career Cluster(s):**
- Finance/Manufacturing/Science
- Technology, Engineering, and Mathematics
- Transportation, Distribution, and Logistics

### Functions, Statistics & Trigonometry (FST)

**Description:** FST is designed for college bound students. Topics include polynomial models, transformations, graphing, data interpretation, statistics, principles of counting, probability, binomial and normal distributions, trigonometric functions and their inverses, triangle applications, matrices, complex numbers, sequences and series, and exponential and logarithmic functions. Many of the topics will be explored with the use of a graphing calculator. A graphics calculator (TI-83+ or TI-84) and graphing notebook paper are required.
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Geometry #420A/B</strong></td>
<td>Geometry is the study of the relationship between points, lines, and planes in space. The course stresses the basic concepts of plane geometry, while including the geometry of three-dimensional figures, and also strengthens algebraic skills. Emphasis is placed on logical reasoning, using the deductive method of formal proof, and analyzing and solving problems. A scientific calculator, protractor and compass will be a requirement of all students.</td>
<td>Architecture and Construction/Manufacturing/Science, Technology, Engineering, and Mathematics</td>
</tr>
<tr>
<td>Grades: 9, 10, 11, 12</td>
<td>Transcripted: No</td>
<td>Credit: 1.0 credit</td>
</tr>
<tr>
<td><strong>Honors Advanced Algebra #422A/B</strong></td>
<td>Honors Advanced Algebra is designed to provide the necessary background for those students going on to take calculus and who are preparing for fields such as engineering, science, statistics, and business. This course will cover advanced work in a variety of topics including functions, systems of equations, polynomials and their graphs, conic sections, logarithms, trigonometry and precalculus. All students are required to have a scientific calculator. (See your present instructor for a recommendation.)</td>
<td>Science, Technology, Engineering, and Mathematics/Architecture and Construction</td>
</tr>
<tr>
<td>Grades: 9, 10, 11, 12</td>
<td>Transcripted: No</td>
<td>Credit: 1.0 credit</td>
</tr>
<tr>
<td><strong>Honors Geometry #423A/B</strong></td>
<td>Honors Geometry is the study of the relationship between points, lines, and planes in space. This course, as an expansion of Geometry #420, stresses the basic concepts of plane geometry, while including the geometry of three dimensional figures, transformations, and trigonometry. This course emphasizes inductive and deductive reasoning, problem solving, applications, and modeling as strategies in approaching real-world problems. It requires students to investigate, discover, and prove their conjectures; formulate definitions; express mathematical ideas orally and in writing; read written presentations of mathematics with understanding; follow and construct logical arguments both formally and informally; understand the connection between geometry and other disciplines. Required materials: scientific calculator; protractor; compass, ruler with centimeters and inches, and a binder.</td>
<td>Science, Technology, Engineering, and Mathematics</td>
</tr>
<tr>
<td>Grades: 9, 10</td>
<td>Transcripted: No</td>
<td>Credit: 1.0 credit</td>
</tr>
<tr>
<td><strong>Honors Advanced Algebra #422A/B</strong></td>
<td>Honors Advanced Algebra is designed to provide the necessary background for those students going on to take calculus and who are preparing for fields such as engineering, science, statistics, and business. This course will cover advanced work in a variety of topics including functions, systems of equations, polynomials and their graphs, conic sections, logarithms, trigonometry and precalculus. All students are required to have a scientific calculator. (See your present instructor for a recommendation.)</td>
<td>Science, Technology, Engineering, and Mathematics/Architecture and Construction</td>
</tr>
<tr>
<td>Grades: 9, 10, 11, 12</td>
<td>Transcripted: No</td>
<td>Credit: 1.0 credit</td>
</tr>
<tr>
<td><strong>Honors Geometry #423A/B</strong></td>
<td>Honors Geometry is the study of the relationship between points, lines, and planes in space. This course, as an expansion of Geometry #420, stresses the basic concepts of plane geometry, while including the geometry of three dimensional figures, transformations, and trigonometry. This course emphasizes inductive and deductive reasoning, problem solving, applications, and modeling as strategies in approaching real-world problems. It requires students to investigate, discover, and prove their conjectures; formulate definitions; express mathematical ideas orally and in writing; read written presentations of mathematics with understanding; follow and construct logical arguments both formally and informally; understand the connection between geometry and other disciplines. Required materials: scientific calculator; protractor; compass, ruler with centimeters and inches, and a binder.</td>
<td>Science, Technology, Engineering, and Mathematics</td>
</tr>
</tbody>
</table>
**Introduction to Data Science and Analytics I**

**#412**

**Description:** Data science is an interdisciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from data in various forms, both structured and unstructured. *Introduction to Data Science and Analytics* is designed to introduce students to the exciting opportunities available at the intersection of data analysis, computing, and mathematics through hands-on activities. Data are everywhere, and this course will help prepare students to live in a world of data. The course focuses on practical applications of data analysis to give students concrete and applicable skills. This course engages students with the wider world of data that fall into the "Big Data" paradigm and are relevant to students' lives. *Introduction to Data Science and Analytics* is based on using statistical inference to mine and make sense of data.

**Most Applicable Career Cluster(s):**
Science, Technology, Engineering, and Mathematics

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**Introduction to Data Science and Analytics II**

**#413**

**Description:** *Introduction to Data Science and Analytics II* is a continuation of *Introduction to Data Science and Analytics I*. Students will continue to work on using statistical inference to mine and make sense of data. See course description of *Introduction to Data Science and Analytics I* for further description.

**Most Applicable Career Cluster(s):**
Science, Technology, Engineering, and Mathematics

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**Math Skills**

**#425A/B**

**Description:** This course emphasizes drill on basic mathematical functions of addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals, as used in figuring percents, and in measurement. The metric system will be introduced. The course is designed for the student who needs additional practice in basic skills and their use in everyday practical applications. A basic probability and statistics unit will be introduced. A scientific calculator is required for this class.

**Most Applicable Career Cluster(s):**
Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications

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**Mathematical Connections**

**#430A/B**

**Description:** This course is designed to review and build upon the ideas developed in Pre-Algebra and will emphasize mastery of basic algebra concepts. Topics to be discussed and expanded upon include statistics, probability, algebra, geometry, problem solving, consumer and business topics, and computers. Emphasis will be given to applications of these topics in real situations. A scientific calculator is required for this class.

**Most Applicable Career Cluster(s):**
Agriculture, Food, and Natural Resources/Architecture and Construction/Hospitality and Tourism/Manufacturing
### Precalculus #424A/B

**Description:** Precalculus With Trigonometry is designed to prepare students for taking Calculus. The course also prepares students for college entrance and placement exams. Precalculus includes advanced work with algebraic, trigonometric, exponential and logarithmic functions, inequalities, and their respective graphs. Conic section equations and their graphs are studied in depth. Limits and derivatives are introduced in preparation for Calculus. A scientific calculator is required for Precalculus. A graphing calculator (TI83 or TI84+) and graphing notebook are required for this course.

**Most Applicable Career Cluster(s):**
Agriculture, Food, and Natural Resources/Architecture and Construction
Business Management and Administration/Education and Training

### Transition to College Math (TCM) #427A/B

**Description:** This course is for college-bound juniors or seniors who need extra preparation for either advanced algebra as a senior at MHS or a required advanced algebra course one must take in college. It is also designed for students who will be entering fields of study where the use of mathematics is limited. Topics include algebra and geometry and the practical applications of those fields. Skills will be developed in equation solving, graphing, exponents, rational expressions, and measurements. Scientific calculators are required.

**Special Note:** Many state universities in Wisconsin as well as private schools will accept TCM as the third year of a 3-year math requirement for acceptance into their institution. This is not true, however, at UW-Madison. Please take the time to check the admissions requirements at the schools you are interested in before registering for this class.

**Most Applicable Career Cluster(s):**
Arts, Audio/Video Technology, and Communications/Government and Public Administration/Health Science/Hospitality and Tourism
# Music Department
Course Offerings, Co-Curricular, and Career Ideas

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed Chorus</td>
<td>#485 A/B</td>
<td>Concert Choir</td>
</tr>
<tr>
<td>Concert Choir</td>
<td>#468 A/B</td>
<td>Symphonic Band</td>
</tr>
<tr>
<td>Symphonic Band</td>
<td>#492 A/B</td>
<td>Wind Ensemble</td>
</tr>
<tr>
<td>Wind Ensemble</td>
<td>#497 A/B</td>
<td>Jazz Ensemble</td>
</tr>
<tr>
<td>Jazz Ensemble</td>
<td>#484 A/B</td>
<td>Concert Strings</td>
</tr>
<tr>
<td>Concert Strings</td>
<td>#490 A/B</td>
<td>Symphonic Strings</td>
</tr>
<tr>
<td>Symphonic Strings</td>
<td>#494 A/B</td>
<td>Beginner Ukulele</td>
</tr>
<tr>
<td>Beginner Ukulele</td>
<td>#460</td>
<td>Music Theory</td>
</tr>
<tr>
<td>Music Theory</td>
<td>#488 A/B</td>
<td></td>
</tr>
</tbody>
</table>

**MHS Related Co-Curricular:**
- Tri-M Honor Society
- Vocal Jazz
- Men’s Choir
- Pop Strings
- Pep Band
- Strings Choir
- Musical

**Some Career Options:**

- Entry level with no formal higher education
  - Music Store Associate
  - Singer
  - Musician
  - Song Writer
  - Dancer
  - Stage hand

- With Associates Degree or formal Certification
  - Piano Tuner
  - Instrument Repair
  - Audio Technician
  - Sound Production
  - Recording Studio Tech

- For those with Bachelor's Degrees or higher
  - Singer
  - Musician
  - Choreographer
  - Director
  - Teacher
  - Dancer
  - Producer
  - Agent
  - Business Manager

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https://www.wicareerpathways.org/Students/Clusters/Arts-AudioVideoTechnology-Communications

Arts, audio/video technology and communications careers include designing, producing, exhibiting, performing, writing and publishing multimedia content. This field also involves the visual and performing arts, journalism and entertainment services.
<table>
<thead>
<tr>
<th>Music Course</th>
<th>Description</th>
<th>Most Applicable Career Cluster(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginner Ukulele</td>
<td>In Beginner Ukulele students will be introduced to the instrument and</td>
<td>Arts, Audio/Video Technology, and Communications</td>
</tr>
<tr>
<td>#460</td>
<td>provided with instant access to making music. The focus of the course will be</td>
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<td></td>
<td>the fundamentals of ukulele performance, including: strumming and rhythm,</td>
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<td></td>
<td>reading music, and self-driven learning through practice. This class is</td>
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<td>designed for students who have little or no experience with the ukulele but</td>
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<td></td>
<td>who have a desire to learn to play an instrument. No prior music experience</td>
<td></td>
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<td></td>
<td>is necessary.</td>
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</tr>
</tbody>
</table>

**Grades:** 9, 10, 11, 12  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** None  
**Additional Fees or Required Materials:** Students are expected to provide their own ukulele, additional set of strings, and purchase the class textbook. Recommendations for instruments and strings and the specific textbook needed will be sent via email to all students once they have enrolled in the course.

| Concert Band         | Concert Band is a large performing ensemble for students in grades 9-12.     | Arts, Audio/Video Technology, and Communications                                                  |
| #493A/B              | Students will perform standards and contemporary literature. In addition to   |                                                                                                   |
|                      | in class instruction, students will participate in one on one and small group |                                                                                                   |
|                      | lessons. Students are required to participate in concerts, pep bands, and    |                                                                                                   |
|                      | other performances, as listed in the handbook at the start of the school     |                                                                                                   |
|                      | year. This is a non-auditioned ensemble. Any student with previous experience |                                                                                                   |
|                      | playing a band instrument may join. Students who do not audition into the    |                                                                                                   |
|                      | Wind Ensemble, Symphonic Band, or Jazz Ensemble I, are automatically placed  |                                                                                                   |
|                      | in this ensemble.                                                            |                                                                                                   |

**Grades:** 9, 10, 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Participation in band the previous year or consent of the instructor  
**Additional Fees or Required Materials:** Instrument dependent-see instructor with questions.

| Concert Choir        | Concert Choir is an advanced performance ensemble open to upperclassmen with  | Arts, Audio/Video Technology, and Communications                                                  |
| #468A/B              | prior choral experience and the desire to further develop their vocal and     |                                                                                                   |
|                      | musical proficiency. Concert Choir performs varied styles of music including  |                                                                                                   |
|                      | classical, musical theatre and contemporary. Every year students have the     |                                                                                                   |
|                      | opportunity to perform songs in several different languages. Students are     |                                                                                                   |
|                      | required to perform at five concerts and at graduation. Students should come  |                                                                                                   |
|                      | to room 20 for information on auditioning.                                   |                                                                                                   |

**Grades:** 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Audition; Consent of instructor  
**Additional Fees or Required Materials:** $35.00 yearly outfit rental fee

Qualifies for the Global Ed. Certificate
### Concert Strings

**#490A/B**

**Description:** Concert Strings is a non-auditioned, large performing orchestra open to all students who play an orchestral instrument. This ensemble performs classical and contemporary music. Students will be given the opportunity for lessons, independent solo, and small ensemble work. Students are required to participate in all concerts and other performances listed in the handbook at the start of the year. Students who do not audition into the Symphonic Strings will be automatically placed into Concert Strings. Both orchestras participate in the Marquette University Orchestra Festival, Midnight Magic, WSMA Solo and Ensemble contest, three formal concerts, and High School Graduation each year.

**Most Applicable Career Cluster(s):**
Arts, Audio/Video Technology, and Communications

**Grades:** 9, 10, 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** This course is open to all string players with appropriate skills on their instrument.  
**Additional Fees or Required Materials:** An instrument in working condition  

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### Jazz Ensemble

**#484 A/B**

**Description:** Membership is limited to the instrumentation characteristic of a big band ensemble. Course will include a study of the various forms of music in the jazz and big band idiom as well as individual improvisation. Students will perform at multiple concerts/performances per year.

**Most Applicable Career Cluster(s):**
Arts, Audio/Video Technology, and Communications

**Grades:** 9, 10, 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Audition or consent of the instructor.  
**Additional Fees or Required Materials:** There may be additional fees assessed for this course. These fees will be listed in the handbook at the beginning of the year. Fees may include method book, online music subscription, jazz festival costs or other costs to be determined.
**Marching Band**

**Description:** Marching Band is a summer/fall competitive ensemble that travels throughout Southeastern Wisconsin and Northern Illinois culminating in a Wisconsin State Marching Band Championships performance. Students perform a variety of contemporary wind band repertoire as arranged for marching band. Students learn the techniques of visual and musical performance in the marching band setting. Rehearsal meets during the summer, including a two week long band camp in August and in the evenings during the fall. The full schedule is given out at the initial meeting in Spring prior to the start of the season. Students are required to attend all rehearsals, competitions, parades and other performances.

More information on this course can be found at the pre-season meeting in Spring. Please contact the director for this date.

**Most Applicable Career Cluster(s):**
Arts, Audio/Video Technology, and Communications

**Mixed Chorus**

**Description:** Mixed Chorus is an excellent opportunity for high school students and continuing choral students from PVMS to advance their vocal and music reading skills. Students sing music of different styles, cultures, genres, and time periods. Students perform at five concerts per year. Students should come to room 20 for more information.

**Most Applicable Career Cluster(s):**
Arts, Audio/Video Technology, and Communications

**Music Theory**

**Description:** This class deals with the principles of reading and writing music. It begins with a review of basic notation, but quickly progresses to the advanced level. Concepts will be related to the piano keyboard. Students will sight sing, compose, analyze, describe and evaluate music according to the rules of the great European masters during the common practice period. A previous background in reading music is required. Course materials are presented through lectures, readings, and listening assignments.

**Most Applicable Career Cluster(s):**
Arts, Audio/Video Technology, and Communications
<table>
<thead>
<tr>
<th>COURSE</th>
<th>Description</th>
<th>Most Applicable Career Cluster(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Show Choir 491A/B</strong></td>
<td><strong>Description:</strong> Show Choir is a year-long advanced performance ensemble that performs non-classical musical styles including rock, pop, jazz, and musical theater. Show Choir is open to students with or without dance experience. Show Choir is for students who love to perform and want to improve their stage performance skills. Students are required to perform at five school concerts, and other community events such as Midnight Magic. Come to room 20 for more information.</td>
<td><em>Arts, Audio/Video Technology, and Communications</em></td>
</tr>
<tr>
<td><strong>Grades:</strong> 9, 10, 11, 12</td>
<td><strong>Transcribed:</strong> No <strong>Credit:</strong> 1.0 credit <strong>Length:</strong> Year <strong>Prerequisites:</strong> Consent of Instructor and membership in Band, Orchestra, Treble, Mixed or Concert Choirs <strong>Additional Fees or Required Materials:</strong> $50.00 yearly outfit rental; Members must purchase two pairs of dance shoes and black jazz pants.</td>
<td></td>
</tr>
<tr>
<td><strong>Symphonic Band 492A/B</strong></td>
<td><strong>Description:</strong> Symphonic Band is a large performing ensemble for students in grades 9-12. Students will perform standards and contemporary literature. In addition to in class instruction, students will participate in one on one and small group lessons. Students are required to participate in concerts, pep bands, and other performances as listed in the handbook at the start of the school year. This is an auditioned ensemble. Auditions take place in early Spring. Students who enroll in Mukwonago High School after the audition date should contact Ms. Angoli if they are interested in Symphonic Band.</td>
<td><em>Arts, Audio/Video Technology, and Communications</em></td>
</tr>
<tr>
<td><strong>Grades:</strong> 9, 10, 11, 12</td>
<td><strong>Transcribed:</strong> No <strong>Credit:</strong> 1.0 credit <strong>Length:</strong> Year <strong>Prerequisites:</strong> Participation in band the previous year or consent of the instructor. <strong>Additional Fees or Required Materials:</strong> Instrument dependent see instructor with questions.</td>
<td></td>
</tr>
<tr>
<td><strong>Symphonic Strings 494A/B</strong></td>
<td><strong>Description:</strong> Symphonic Strings is an auditioned only, advanced performance orchestra for students in grades 9-12. Students will perform classical, contemporary literature, and chamber music. Members of the Symphonic Strings will perform regularly with the Wind Ensemble and other groups. Students will be given the opportunity for lessons, independent solo, and small ensemble work. Students are required to participate in all concerts and other performances listed in the handbook at the start of the year. Marquette University Orchestra Festival, Midnight Magic, WSMA Solo and Ensemble contest, three formal concerts, and High School Graduation each year. This is an auditioned ensemble. Auditions take place in early spring and audition materials will be posted by the end of January. Students who enroll in Mukwonago High School after the audition date should contact Mr. Wimer if they are interested in Symphonic Strings.</td>
<td><em>Arts, Audio/Video Technology, and Communications</em></td>
</tr>
</tbody>
</table>
### Treble Choir

**#495 SEM 1**  
**#496 SEM 2**

**Grades:** 9, 10, 11, 12  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** Year  
**Prerequisites:** None  
**Additional Fees or Required Materials:** None

**Description:** This class is the only semester-long vocal performance class. It is an introductory chorus for soprano and alto voices. Members sing a variety of music written specifically for treble chorus. Emphasis is on developing each student's natural voice to the best of their ability and on learning to read music. Members are required to perform at three school concerts for the fall semester and two school concerts for the spring semester. Students may take Treble Choir for one or two semesters.

**Most Applicable Career Cluster(s):**  
Arts, Audio/Video Technology, and Communications

### Wind Ensemble

**#497A/B**

**Grades:** 9, 10, 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Band placement audition  
**Additional Fees or Required Materials:** Instrument dependent—see instructor with questions.

**Description:** Wind Ensemble is an advanced performance ensemble for students in grades 9-12. Students will perform standards, contemporary literature, and chamber music. Members of the Wind Ensemble also perform regularly with the MHS Orchestra and Choral programs. In addition to in class instruction, students will participate in one on one and small group lessons. Students are required to participate in concerts, pep band, and other performances as listed in the handbook at the start of the school year. This is an auditioned ensemble. Auditions take place in early Spring. Students who enroll in Mukwonago High School after the audition date should contact Ms. Angoli if they are interested in Wind Ensemble.

SPECIAL NOTE: Percussion students are assessed a $60.00 instrument usage fee and are expected to have snare sticks, mallets, tympani/suspended cymbal mallets, and stick bag.

**Most Applicable Career Cluster(s):**  
Arts, Audio/Video Technology, and Communications
Physical Education and Health Department

Course Offerings and Course Sequence

Team Up with Fitness
#506 TF

Fundamentals of
Physical Education #502

Athletic Enhancement
#507 AE

Personal and Lifetime
Fitness #507 PF

Dual Sports with Fitness
#5059

Beginning Weights and
Fitness #507W

Advanced Weights and
Fitness #507 A

PE 12 Lifetime Sports
with Fitness #512LT

Health
#514 or #516

Advanced Health
#518

Online Physical Education 1
#503OL (Summer & School Year)

Online Physical Education 2
#504OL (Summer & School Year)

Unified Physical Education
#499U

MHS Career Related
Clubs:
Morning Fitness
Athletics/Club Sports
Ski Club
Power Lifting
Summer Fitness

https://www.wicareerpathways.org/Students/Clusters/HealthScience

Some Career Options:
Entry level with no formal higher education
- Rec Dept
- Officiating

With Associates Degree or formal Certification
- Physical Therapy Asst
- Occupational Therapy Asst
- Teacher’s Aide
- Fitness Associate
- Massage Therapist

For those with Bachelor’s Degrees or higher
- Physical Therapist
- Occupational Therapist
- Athletic Trainer
- YMCA Director
- Dietitian
- Coach
- Orthopedic Specialist
- Teacher
- Personal Trainer
- Recreation Therapist
- Sports Medicine
- Athletic Director

https://www.wicareerpathways.org/Students/Clusters/Education-Training
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Most Applicable Career Cluster(s):</th>
<th>Grades</th>
<th>Transcribed</th>
<th>Credit</th>
<th>Length</th>
<th>Prerequisites</th>
<th>Additional Fees or Required Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Advanced Health</strong></td>
<td>The semester class will continue to explore and delve deeper into the basic concepts covered in the original Health course. Units will include Mental Health, Nutrition, Disease Prevention, Consumer Health and Human Sexuality (major emphasis on relationships). Students will take a closer look at their personal application of the wellness lifestyle and how to become a more productive citizen. This course comes under State Statute 118.019, (Human Growth and Development Instruction). Please refer to the course catalog for further information.</td>
<td>Health Science</td>
<td>10, 11, 12</td>
<td>No</td>
<td>.5 credit</td>
<td>Semester</td>
<td>Must have passed required Health class</td>
<td>None</td>
</tr>
<tr>
<td>Advanced Weights and Fitness</td>
<td>This is a strength and conditioning course that is designed to meet the need for a higher level of development within human performance. This course will feature highly structured workouts that are self driven and designed to meet sport-specific personalized fitness plans. This course is designed for anyone looking for a challenge and enjoys physical and emotional success through exercise. Expect to be challenged. In addition to the 5 health-related components of fitness, this course will concentrate on enhancing/improving the 6 skill-related parts of fitness. Activities will include plyometrics, speed ladders, power training, medicine balls, core training, circuit training, cross training, flexibility training, speed ropes, etc.</td>
<td>Health Science</td>
<td>10, 11, 12</td>
<td>No</td>
<td>.5 credit</td>
<td>Semester</td>
<td>Completion of Beginning Weights &amp; Fitness or Summer School Lifting</td>
<td>None</td>
</tr>
<tr>
<td>Athletic Enhancement</td>
<td>This course differs from other physical education classes in that it focuses on the development of sport-specific training. <strong>Athletic Enhancement with Weight Training</strong> provides an opportunity for student of all grades to focus on the importance of strength and conditioning training and its relationship to physical performance. This enables student-athletes to have a base knowledge which leads to enhanced physical performance in their individual sport. Self motivation is needed for this class. Weight training in this course is directed toward sport-specific lifts. Agility training, speed development, flexibility, balance, coordination and the development of explosive movements are thoroughly covered.</td>
<td>Health Science</td>
<td>10, 11, 12</td>
<td>No</td>
<td>.5 credit</td>
<td>Semester</td>
<td>Completion of Beginning Weights &amp; Fitness or Summer School Lifting</td>
<td>None</td>
</tr>
<tr>
<td>Beginning Weights and Fitness</td>
<td>This is an introductory course in basic weight training and fitness knowledge and techniques. Students will ultimately understand how the health related components (muscle strength, muscle endurance, body composition, flexibility and aerobic endurance) and skill related components (agility, balance, coordination, power, reaction time, speed) of fitness can enhance one’s well being.</td>
<td>Health Science</td>
<td>9, 10, 11, 12</td>
<td>No</td>
<td>.5 credit</td>
<td>Semester</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
**Dual Sports with Fitness**

**#5059**

**Description:** This course is designed to allow students an opportunity to work on a variety of individual lifetime activities as well as emphasizing game play and teamwork in a team sport setting. Units may include archery, tennis, badminton, pickleball, flag football, softball, volleyball, and basketball as well as others.

**Most Applicable Career Cluster(s):**

Health Science

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**Health**

**#514**

**Description:** HUMAN SEXUALITY COMPONENT INCLUDED Essentials of a wellness lifestyle are taught and encouraged. Practical application of essential health information should extend and improve the quality of life. Personal appearance, drug use/abuse, mental health, nutrition, disease prevention, consumer health, C.P.R. and human sexuality are the major emphasis. A three ring binder is required for this course with 5 tabbed dividers. This course comes under State Statute 118.019, (Human Growth and Development Instruction). Please refer to the course catalog for further information. This course will also be offered in the summer.

**Most Applicable Career Cluster(s):**

Health Science

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**Health**

**#516**

**Description:** NO HUMAN SEXUALITY COMPONENT Essentials of a wellness lifestyle are taught and encouraged. Practical application of essential health information should extend and improve the quality of life. Personal appearance, drug use/abuse, mental health, nutrition, disease prevention, consumer health, C.P.R. are the major emphasis. A three ring binder is required for this course with 5 tabbed dividers. This course comes under State Statute 118.019, (Human Growth and Development Instruction). Registration for Health #516 and a parent/guardian signature on the registration form serves as parent/guardian written request to exempt (opt-out) a pupil from instruction in human growth and development. Please refer to the course catalog for further information. PLEASE NOTE: If either course #514 or #516 has less than 15 students enrolled, the course will not be offered.

**Most Applicable Career Cluster(s):**

Health Science

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**Fundamentals of Physical Education**

**#502**

**Description:** This class will introduce students to a wide variety of activities and sports. Several team and individual sports as well as personal fitness activities will be experienced throughout the semester. This experience will give students a general overview of many different activities that will enable them to determine and pursue future Physical Education courses. Through this course students will develop maturity, cooperation, sportsmanship and an appreciation of physical activity. Units will include Weight Training, Fitness, Dance, Team Building Activities, Pickleball, Badminton, Floor Hockey, Lacrosse, Team Handball, Ultimate Frisbee, Speedaway, Archery, Tennis, Softball and Golf.

**Most Applicable Career Cluster(s):**

Health Science
### Online Physical Education I

**#503OL**

**Description:** The purpose of this course is to acquire knowledge of physical fitness concepts, understand the influence of lifestyle on health and fitness and begin to develop an optimal level of fitness. The content includes, but is not limited to: FITT Principle, 5 Components of Health, assessing your activity with a wearable device, goal setting, nutrition concepts, healthy mind and body, and creating a personal fitness plan. Students will earn ½ elective credit for this course. Grades earned will be posted on the student's transcript and included in class rank calculations.

**Mandatory Wrist Worn Tracking Device:** Students MUST purchase their own wrist worn tracking device. This device must be able to track the student's steps throughout their daily activity. 30,000 steps will be required throughout the semester course. Students will be required to upload their weekly steps into Google Classroom via a weekly summary screenshot.

**This is a blended learning course. There will be 3 mandatory meetings throughout the course.**

**Most Applicable Career Cluster(s):**
Health Science

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### Online Physical Education II

**#504OL**

**Description:** The purpose of this course is to acquire knowledge of physical fitness concepts, understand the influence of lifestyle on health and fitness and begin to develop an optimal level of fitness. The content includes, but is not limited to: Nutrition and Obesity, Strength and Fitness concepts, Individual and Lifetime Sports, Team Sports, Personal and Community Health, Health Trends and Fads, and assessing your activity with a wearable device. Students will earn ½ elective credit for this course. Grades earned will be posted on the student's transcript and included in class rank calculations.

**Mandatory Wrist Worn Tracking Device:** Students MUST purchase their own wrist worn tracking device. This device must be able to track the student's steps throughout their daily activity. 30,000 steps will be required throughout the semester course. Students will be required to upload their weekly steps into Google Classroom via a weekly summary screenshot.

**This is a blended learning course. There will be 3 mandatory meetings throughout the course.**

**Most Applicable Career Cluster(s):**
Health Science

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### PE 12 Lifetime Sports with Fitness

**#512LT**

**Description:** Seniors will engage in individual and team lifetime activities. The class is designed to allow seniors to continue to work on lifetime skills and activities in a competitive atmosphere. A highly competitive spirit is essential. Possible activities could include: softball, flag football, volleyball, pickleball/badminton, archery, golf, tennis, weight training, and various fitness activities.

**Most Applicable Career Cluster(s):**
Health Science
<table>
<thead>
<tr>
<th><strong>PHYSICAL EDUCATION AND HEALTH</strong></th>
<th><strong>◆ Personal and Lifetime Fitness</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>#507PF</strong></td>
<td><strong>Description:</strong> The objective of this course is to meet the needs and interests of students desiring a class with strong emphasis on personal wellness and fitness. This will also help the student to learn and promote lifetime fitness skills, which would enable them to live a healthier lifestyle. This course will consist of personal fitness activities, along with strength training and conditioning. Areas of focus include Taebo, Step Aerobics, Pilates, Plyometrics, Yoga, Track Workouts, etc.</td>
</tr>
<tr>
<td><strong>Grades:</strong> 9, 10, 11, 12</td>
<td><strong>Most Applicable Career Cluster(s):</strong></td>
</tr>
<tr>
<td><strong>Transcribed:</strong> No</td>
<td>Health Science</td>
</tr>
<tr>
<td><strong>Credit:</strong> .5 credit</td>
<td></td>
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<tr>
<td><strong>Length:</strong> Semester</td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisites:</strong> None</td>
<td></td>
</tr>
<tr>
<td><strong>Additional Fees or Required Materials:</strong> None</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PHYSICAL EDUCATION AND HEALTH</strong></th>
<th><strong>◆ Team Up with Fitness</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>#506TF</strong></td>
<td><strong>Description:</strong> This course will emphasize skill development, game play, teamwork, cooperation and sportsmanship used during lifetime team sport activities and physical fitness. A competitive spirit is essential. Units will include Softball, Flag Football, Soccer, Speedaway, Ultimate Frisbee, Basketball, Volleyball, Floor Hockey, Lacrosse, Team Handball and Fitness.</td>
</tr>
<tr>
<td><strong>Grades:</strong> 9, 10, 11, 12</td>
<td><strong>Most Applicable Career Cluster(s):</strong></td>
</tr>
<tr>
<td><strong>Transcribed:</strong> No</td>
<td>Health Science</td>
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<tr>
<td><strong>Length:</strong> Semester</td>
<td></td>
</tr>
<tr>
<td><strong>Prerequisites:</strong> None</td>
<td></td>
</tr>
<tr>
<td><strong>Additional Fees or Required Materials:</strong> None</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PHYSICAL EDUCATION AND HEALTH</strong></th>
<th><strong>◆ Unified Physical Education</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>#499U1 #499U2</strong></td>
<td><strong>Description:</strong> This course combines students with and without intellectual disabilities to participate in sports, recreation, wellness and leadership activities together. Students will support one-another while increasing physical fitness and improving daily health habits.</td>
</tr>
<tr>
<td><strong>Grades:</strong> 9, 10, 11, 12</td>
<td><strong>Most Applicable Career Cluster(s):</strong></td>
</tr>
<tr>
<td><strong>Transcribed:</strong> No</td>
<td>Health Science</td>
</tr>
<tr>
<td><strong>Credit:</strong> .5 credit</td>
<td></td>
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<tr>
<td><strong>Length:</strong> Semester</td>
<td></td>
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<tr>
<td><strong>Prerequisites:</strong> Teacher Approval needed</td>
<td>Additional Fees or Required Materials: None</td>
</tr>
</tbody>
</table>


Science Department
Course Offerings and Course Sequence

Freshman
- Honors Biology #624 A/B
- Biology I #608 A/B
- Chemistry I #614 A/B
- Foundations of Physics and Chemistry #6299 A/B

Sophomore/Junior
- Honors Chemistry #630 A/B
- Chemistry II #602 A/B
- Physics #640 A/B
- Biology II #610 A/B
- Geology #604
- Meteorology #605
- Astronomy #603
- Food & Nutritional Science #3069
- PLTW: Principles of Biomedical Science (PBS) #3372 A/B
- PLTW: Human Body Systems (HBS) #3373 A/B

Junior/Senior
- AP Biology #600 A/B
- AP Chemistry #602 A/B
- AP Environmental #628 A/B
- AP Physics I #6429 A/B
- AP Physics II #6439 A/B

Some Career Options:
- Entry level with no formal higher education
  - Farmer
  - Fisherman
  - Logger
  - Phlebotomy Tech
  - Dental Hygienist
  - Arborist
  - Waste Management Tech
- With Associates Degree or formal Certification
  - Lab Assistant
  - Lab Tech
  - Vet Assistant
  - Horticulturist
  - Golf Course Superintendent
- For those with Bachelor’s Degrees or higher
  - Chemist
  - Geneticist
  - Pharmacist
  - Astronomer
  - Biologist
  - Fisheries Scientist
  - Physician
  - Energy Scientist
  - Conservation Scientist
  - Geologist
  - Meteorologist
  - Entomologist
  - Engineer
  - Marine Biologist

MHS Co-Curricular Clubs:
- Ecology Club
- Science Club
- Robotics

PLTW:
- Principles of Biomedical Science (PBS) #3372 A/B
- Medical Interventions (MI) #3374 A/B

Career Clusters:
- Agriculture, Food & Natural Resources
  - https://wicareerpathways.org/students/clusters/agriculture-food-naturalresources
- Health Science
  - https://wicareerpathways.org/students/clusters/HealthScience
- Science, Technology, Engineering & Mathematics
**SCIENCE**

**◆ AP Biology**

#600A/B

**Grades:** 11, 12

**Transcripted:** No

**Credit:** 1.5 credit

**Length:** Year

**Prerequisites:** Biology I, Chemistry, teacher recommendation, physics recommended or being taken concurrently. In the event that enrollment need be reduced, seniors will have priority over juniors. Student cannot take both AP Biology and Biology II

**Additional Fees or Required Materials:** AP Exam fee

**Description:** AP Biology is intended to be equivalent to a freshman college biology course in respect to the subject matter covered and the laboratory experiments performed. This course covers a wider variety of topics than Biology I, and it will examine these areas in greater detail and move at a fast pace. There is less emphasis on the animal kingdom, and greater emphasis on the cellular processes of metabolism, photosynthesis, and genetics as well as extensive units on ecology, evolution, and plants. Lab work, writing skills, and practice on AP Exam questions will be stressed. The class meets for an extended time, consisting of two class periods. This course is designed to prepare students for the College Board Advanced Placement Exam. To promote the proper educational atmosphere necessary for this class, STUDENTS SHOULD ONLY SIGN UP IF THEY HAVE A VERY SERIOUS INTENT TO TAKE THE AP TEST.

**Most Applicable Career Cluster(s):** Agriculture, Food, and Natural Resources / Health Science / Science, Technology, Engineering, and Mathematics

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**SCIENCE**

**◆ AP Chemistry**

#602A/B

**Grades:** 11, 12

**Transcripted:** No

**Credit:** 1.5 credit

**Length:** Year

**Prerequisites:** Completion of Chemistry earning an A or B or teacher recommendation

**Additional Fees or Required Materials:** laboratory style notebook and a scientific calculator. AP Exam fee

**Description:** Advanced Placement (AP) Chemistry is the equivalent to a freshman college chemistry course with respect to the subject matter covered and the laboratory experiments performed. The course is designed to prepare students for the College Board Advanced Placement Exam. Students will be expected to understand theory, solve problems, and perform laboratory experiments in preparation for the AP test in May. The class meets for an extended time, consisting of two class periods to accommodate laboratory exercises and a range of advanced topics. Students will need a laboratory style notebook and a scientific calculator. To promote the proper educational atmosphere necessary for this class, STUDENTS SHOULD ONLY SIGN UP IF THEY HAVE A VERY SERIOUS INTENT TO TAKE THE A.P. EXAM. A summer assignment is given. Contact instructor or guidance department for the assignments.

**Most Applicable Career Cluster(s):** Agriculture, Food, and Natural Resources / Education and Training / Health Science / Science, Technology, Engineering, and Mathematics

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**SCIENCE**

**◆ AP Environmental Science**

#628A/B

**Grades:** 11, 12

**Transcripted:** No

**Credit:** 1.0 credit

**Length:** Year

**Prerequisites:** Completion of Biology I and Chemistry earning an A or B.

**Additional Fees or Required Materials:** AP Exam fee, Lab notebook (composition)

**Description:** The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science that can lead to a more advanced study of topics in environmental science or, alternatively can fulfill a basic requirement for a lab science. The intent of the course is to prepare students for the College Board Advanced Placement Exam. The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. To promote the proper educational atmosphere necessary for this class, STUDENTS SHOULD ONLY SIGN UP IF THEY HAVE A VERY SERIOUS INTENT TO TAKE THE AP TEST.

**Most Applicable Career Cluster(s):** Agriculture, Food, and Natural Resources / Education and Training / Government and Public Administration / Science, Technology, Engineering, and Mathematics
SCIENCE
◆ AP Physics I
#6429A/B

**Grades:** 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Advanced Algebra & Chemistry (may be taken concurrently) Students cannot take AP Physics I after completing Physics; should schedule AP Physics II.

**Additional Fees or Required Materials:** A scientific calculator and a spiral notebook are required.  
AP Exam fee

**Description:** AP Physics 1 is equivalent to a first semester college course in algebra-based physics. The course topics include Newtonian mechanics, work, power, energy, mechanical waves and sound. It also introduces electrical circuits. Students will be expected to understand theory, solve problems, and perform laboratory experiments in preparation for the AP test in May. To promote the proper educational atmosphere necessary for this class, STUDENTS SHOULD ONLY SIGN UP IF THEY HAVE A VERY SERIOUS INTENT TO TAKE THE AP TEST.

**Most Applicable Career Cluster(s):** Science, Technology, Engineering, and Mathematics

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SCIENCE
◆ AP Physics II
#6439A/B

**Grades:** 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Completion of Advanced Algebra & Physics or AP Physics 1

**Additional Fees or Required Materials:** A scientific calculator and a spiral notebook are required.  
AP Exam fee

**Description:** AP Physics 2 is equivalent to a second semester college course in algebra-based physics. The course topics include fluid mechanics, thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics. Students will be expected to understand theory, solve problems, and perform laboratory experiments in preparation for the AP test in May. To promote the proper educational atmosphere necessary for this class, STUDENTS SHOULD ONLY SIGN UP IF THEY HAVE A VERY SERIOUS INTENT TO TAKE THE AP TEST.

**Most Applicable Career Cluster(s):** Science, Technology, Engineering, and Mathematics

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SCIENCE
◆ Astronomy
#603

**Grades:** 11, 12  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** 1 year of Physical Science, Chemistry, or Physics, and completion of Biology I and Algebra I

**Additional Fees or Required Materials:** A fee for Astronomy Magazine is required.

**Description:** Astronomy is the study of the universe. This course provides a survey of the day and night sky, constellations and asterisms, telescopes, survey of the solar system, stars and stellar evolution, nebulae, star clusters, black holes, the Milky Way Galaxy, and Cosmology. Emphasis will be placed on discussion, computer simulation exercises, and laboratory investigations. Conceptual and analytical methods of studying the universe will be presented. Astronomy outings will be offered.

**Most Applicable Career Cluster(s):** Science, Technology, Engineering, and Mathematics
**Biology I**

- **Grades:** 9, 10, 11, 12
- **Transcripted:** No
- **Credit:** 1.0 credit
- **Length:** Year
- **Prerequisites:** None
- **Additional Fees or Required Materials:** Students are required to supply a pencil, pen, notebook, ruler, small set of colored pencils, and a pocket folder. Flash drive recommended.

**Description:** This course is designed to develop the basic skills and knowledge necessary to relate to life science in our modern society. The areas of study included are: cells, genetics, plant and animal kingdoms, systems of the human body, and ecology. Laboratory investigations and class discussion are among the activities used to help the student develop greater appreciation of living things in the environment.

**Most Applicable Career Cluster(s):** Agriculture, Food, and Natural Resources / Health Science / Science, Technology, Engineering, and Mathematics

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**Biology II**

- **Grades:** 11, 12
- **Transcripted:** No
- **Credit:** 1.0 credit
- **Length:** Year
- **Prerequisites:** Chemistry, Biology I or Honors Biology, and teacher recommendation. Student cannot take both AP Biology and Biology II.
- **Additional Fees or Required Materials:** None

**Description:** This course is structured primarily to aid students who plan to enter such fields as medicine, dentistry, pharmacy, nursing, veterinary medicine, and other science related fields. It will provide an in-depth study into the areas of anatomy and physiology, biochemistry, bio-ethics, cellular respiration, genetics, bacteriology, ecology, botany and cytology which are encountered in college. In preparation for continued studies, this course is lab intensive requiring students to show initiative and motivation. Students will be held to the high expectations associated with a second level course.

**Most Applicable Career Cluster(s):** Agriculture, Food, and Natural Resources / Health Science / Science, Technology, Engineering, and Mathematics

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**Chemistry I**

- **Grades:** 10, 11, 12
- **Transcripted:** No
- **Credit:** 1.0 credit
- **Length:** Year
- **Prerequisites:** Biology and grade of "C" or better in Algebra I, or teacher recommendation
- **Additional Fees or Required Materials:** Scientific Calculator

**Description:** SPECIAL NOTE: Recommended for all college-bound students
In this course, the student will perform laboratory activities designed to help them learn about chemistry. The scientific method and problem solving will be used to understand matter and the changes it undergoes. The mole, atomic structure, chemical reactions and solutions are among the various topics which will be addressed. Students are required to have a scientific calculator. A typed research paper may be required.

**Most Applicable Career Cluster(s):** Health Science / Science, Technology, Engineering, and Mathematics

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**Chemistry II**

- **Grades:** 11, 12
- **Transcripted:** No
- **Credit:** 1.0 credit
- **Length:** Year
- **Prerequisites:** Chemistry I completed
- **Additional Fees or Required Materials:** Scientific Calculator

**Description:** Chemistry II is a second year chemistry course focused on real world applications of chemistry. Chemistry is the study of matter and changes it undergoes. Students will study the composition and production of materials used in daily life, such as fuels, foods, fabrics, and pharmaceuticals. The chemical reactions involved in these processes will be the focus of this course. Other pertinent topics may be added to the course based on interest and/or current events. Typed research papers or projects may be required.

**Most Applicable Career Cluster(s):** Science, Technology, Engineering, and Mathematics
### Geology  
**#604**

**Grades:** 11, 12  
**Transcripted:** No  
**Credit:** 0.5 credit  
**Length:** Semester  
**Prerequisites:** Successful completion of Biology, and 1 year of a physical science (such as Foundations of Chemistry and Physics, or Chemistry I, or Honors Chemistry) or by consent of the instructor.  
**Additional Fees or Required Materials:** None

**Description:** Geology is the study of our physical Earth. This course will explore the aspects of Earth System Science. It will focus on the understanding of how the Earth's spheres work in relation to each other, and the Geophysical makeup of the Earth including the study of plate tectonics, volcanoes, earthquakes, weathering, erosion, minerals and rocks. Emphasis will be placed on the geological makeup of Wisconsin.  

**Most Applicable Career Cluster(s):** Agriculture, Food, and Natural Resources / Science, Technology, Engineering, and Mathematics  

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### Foundations of Physics and Chemistry  
**#6299A/B**

**Grades:** 10  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Biology  
**Additional Fees or Required Materials:** Simple calculator and assignment notebook

**Description:** Foundations of Physics and Chemistry is an introduction to the principles of physics and chemistry. The purpose of the course is to provide a better understanding of interactions within our environment with real-life applications. Topics discussed are motion, machines, energy uses and changes, sound and light, properties of matter, atomic structure, the periodic table, chemical bonds, and chemical reactions. A calculator is required.  

**Most Applicable Career Cluster(s):** Science, Technology, Engineering, and Mathematics  

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### Honors Biology  
**#624A/B**

**Grades:** 9  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** A minimum of a "B" in the previous year's science and math classes.  
**Additional Fees or Required Materials:** None

**Description:** This course is designed to develop a basic understanding of all living organisms and the interactions among them. The course will combine individual assignments, laboratory and group work to promote an appreciation of all life forms. Honors Biology differs from Biology I in its pacing and types of lab experiences offered. Enrichment topics will be included as time allows. Students are required to provide a notebook, flash drive, folder, pencil, and a set of colored pencils. A typed paper is required.  

**Most Applicable Career Cluster(s):** Agriculture, Food, and Natural Resources / Health Science / Science, Technology, Engineering, and Mathematics
<table>
<thead>
<tr>
<th>Course</th>
<th>Grade Levels</th>
<th>Transcripted</th>
<th>Credit</th>
<th>Length</th>
<th>Prerequisites</th>
<th>Additional Fees or Required Materials</th>
<th>Description</th>
<th>Most Applicable Career Cluster(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Honors Chemistry</strong></td>
<td>10, 11, 12</td>
<td>No</td>
<td>1.0</td>
<td>Year</td>
<td>Biology I or Honors Biology, teacher recommendation, appropriate test scores, and a grade of “B”</td>
<td>Scientific Calculator required</td>
<td>Honors Chemistry is recommended for college-bound students. It is more accelerated than Chemistry 1, though both cover a wide range of chemistry topics. The basic difference between the two courses are the emphasis Honors Chemistry places upon individual work, independent thinking, depth to which the materials are covered and the extra enrichment topics included. Scientific calculators required. Typed research papers or projects may be required.</td>
<td>Health Science / Science, Technology, Engineering, and Mathematics</td>
</tr>
<tr>
<td><strong>Meteorology</strong></td>
<td>11, 12</td>
<td>No</td>
<td>0.5</td>
<td>Semester</td>
<td>Successful completion of Biology, and 1 year of a physical science (such as Foundations of Chemistry and Physics, or Chemistry I, or Honors Chemistry) or by consent of the instructor.</td>
<td>None</td>
<td>Meteorology is the study of weather and climate. This course will focus on the science of weather forecasting, the understanding of the atmosphere, and the forces that affect it. The course explores topics that include: the structure and composition of the atmosphere, moisture, air pressure, radiation budget, air masses, thunderstorms, hurricanes, tornadoes, weather safety, and the tools used in weather forecasting.</td>
<td>Agriculture, Food, and Natural Resources / Science, Technology, Engineering, and Mathematics</td>
</tr>
<tr>
<td><strong>Physics</strong></td>
<td>11, 12</td>
<td>No</td>
<td>1.0</td>
<td>Year</td>
<td>Advanced Algebra &amp; Chemistry (may be taken concurrently) Students cannot take both Physics and AP Physics I</td>
<td>A scientific calculator and a spiral notebook are required</td>
<td>Physics is the study of how matter and energy interact. This course is designed to develop the student’s ability to observe, analyze, and predict events in nature. Topics studied will be motion, forces, energy, momentum, heat, electricity and waves. A scientific calculator is required.</td>
<td>Science, Technology, Engineering, and Mathematics</td>
</tr>
</tbody>
</table>
**Youth Apprenticeship**
(YA)
#YA WORK EXP

**Grades:** 11, 12
**Transcripted:** No (State Recognized Certificate)
**Credit:** 1.0 credit per semester
**Length:** Year

**Prerequisites:** Enrolled in a content related class for duration of Apprenticeship

**Additional Fees or Required Materials:** None

**Description:** Wisconsin’s Youth Apprenticeship program is a part of a statewide School-to-Work initiative. It is designed for high school students who want hands on learning in an occupational area at a worksite along with classroom instruction. This one or two year elective program combines academic and technical instruction with mentored on-the-job learning. This is a paid work experience and students will earn high school credit and a state certificate. It is possible that students could earn postsecondary credit as well. Students completing a one year Youth Apprenticeship will be required to fulfill 450 work hours, and a two year Youth Apprenticeship will require 900 work hours.

**Content Areas:**
Health Science

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**PLTW: Principles of Biomedical Science**
#3372A/B

**Grades:** 9, 10, 11, 12
**Transcripted:** No (SE-Science Equivalent)
**Credit:** 1.0 credit (may count for science or CTE credit)
**Length:** Year

**Prerequisites:** None

**Additional Fees or Required Materials:** None

**Description:** The principles of Biomedical Science (PBS) course provides an introduction to biomedical science through exciting hands-on projects and problems. Students investigate concepts of biology and medicine as they explore health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They will determine the factors that led to the death of a fictional woman as they sequentially piece together evidence found in her medical history and her autopsy report. Students will investigate lifestyle choices and medical treatments that might have prolonged a woman’s life and demonstrate how the development of disease is related to changes in human body systems.

This PLTW course will allow the student to earn college credit at a number of universities. By earning a passing score on the End of Course Assessment (EOC) a student can submit for college credit. Because of the number of options available, please see your course instructor or counselor for more details on how to take advantage of this great opportunity.

*This course can be taken to fulfill the third credit of science for graduation.*

**Most Applicable Career Cluster(s):** Education and Training / Human Services / Science, Technology, Engineering, and Mathematics

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**PLTW: Human Body Systems**
#3373A/B

**Grades:** 10, 11, 12
**Transcripted:** No (SE-Science Equivalent)
**Credit:** 1.0 credit (may count for science or CTE credit)
**Length:** Year

**Prerequisites:** Principles of Biomedical Science, a grade of “C” or better in biology or chemistry

**Additional Fees or Required Materials:** None

**Description:** In the Human Body Systems (HBS) course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases, and often play the role of biomedical professionals to solve medical mysteries.

This PLTW course will allow the student to earn college credit at a number of universities. By earning a passing score on the End of Course Assessment (EOC) a student can submit for college credit. Because of the number of options available, please see your course instructor or counselor for more details on how to take advantage of this great opportunity.

*This course can be taken to fulfill the third credit of science for graduation.*

**Most Applicable Career Cluster(s):** Education and Training / Human Services / Science, Technology, Engineering, and Mathematics
### PLTW: Medical Interventions

**#3374A/B**

**Grades:** 11, 12  
**Transcripted:** No (SE-Science Equivalent)  
**Credit:** 1.0 credit (may count for science or CTE credit)  
**Length:** Year  
**Prerequisites:** None  
**Additional Fees or Required Materials:** None

**Description:** As they follow the life of a fictitious family, students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical device design and diagnostics. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role that scientific thinking and engineering design play in the development of interventions of the future. This PLTW course will allow the student to earn college credit at a number of universities. By earning a passing score on the End of Course Assessment (EOC) a student can submit for college credit. Because of the number of options available, please see your course instructor or counselor for more details on how to take advantage of this great opportunity.

**Most Applicable Career Cluster(s):** Education and Training / Human Services / Science, Technology, Engineering, and Mathematics

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### Food and Nutritional Science

**#3069**

**Grades:** 10, 11, 12  
**Transcripted:** No (SE-Science Equivalent)  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** Intro to Culinary Arts  
**Additional Fees or Required Materials:** None

**Description:** Food science is the study of the nature of food, the causes of deterioration, the principles of food processing, and improving foods for the consuming public. Students will identify and classify elements, compounds and mixtures in food. Students will be able to identify chemicals, classify reactions, and understand factors that affect chemical reactions found in food through lab experiences, discussion, and evaluations. Successful completion of this course can satisfy 0.5 credits of science toward MHS graduation requirements.

**Most Applicable Career Cluster(s):** Agriculture, Food, and Natural Resources / Hospitality and Tourism / Science, Technology, Engineering, and Mathematics
Social Studies Department
Course Offerings and Course Sequence

Grade 9
- American Government and the Free Enterprise System #648 A/B
- Honors American Government and the Free Enterprise System #661

Grade 10
- World History #685 A/B
- AP World History #6451 A/B

Grade 11
- U.S. History #673 A/B
- AP U.S. History #6449 A/B
- American Civil War #647
- Criminal Justice #655
- History of Asia/Russia #663
- History of Emerging Nations #660
- History of Emerging Nations #660
- Political Science #667
- Economics #655
- Sociology #670

Electives
- Psychology #668
- AP U.S. History #6449 A/B
- AP Psychology #646 A/B
- AP Human Geography #683 A/B
- AP Macroeconomics #658

Some Career Options:
Entry level with no formal higher education
- Museum Asst
- Police Cadet
- Corrections Officer
- School Board
- License Examiner
- Military
- Mail Carrier
- Security Guard

With Associates Degree or formal Certification
- Police Officer
- Court Reporter
- Fireman/EMT
- Private Detective
- Paralegal
- Funeral Director
- Bailiff
- Forensics Tech

For those with Bachelor’s Degrees or higher
- Computer Mapper
- Teacher
- Archeologist
- Historian
- Geologist
- Criminalist
- Clergy
- Legislator
- CIA
- FBI Agent
- Forensic Scientist
- Archeologist

MHS Career Related Co-Curricular:
- History Club
- Key Club
- Student Government
- Mock Trial

https://wicareerpathways.org/Students/Clusters/Education-Training
https://wicareerpathways.org/Students/Clusters/Law-PublicSafety-Corrections-Security
https://wicareerpathways.org/Students/Clusters/Government-PublicAdministration
https://wicareerpathways.org/Students/Clusters/HumanServices
## SOCIAL STUDIES

### American Civil War
**US History 1830-1877 #647**

**Description:** This course is an intensive study of the American Civil War examining how it affected Americans, and what it meant for the future of our nation. Constitutional, political, social and moral issues presented by slavery, state’s rights, secession, and human rights in the period leading up to the war will be covered as well as the Reconstruction Era. If you love the Civil War this is your course. The course will help develop your thinking, writing, and debate skills.

**Most Applicable Career Cluster(s):** Arts, Audio/Video Technology, and Communications/Education and Training/Government and Public Administration/Law, Public Safety, Corrections, and Security

**Grades:** 10, 11, 12  
**Transcribed:** No  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** American Government  
**Additional Fees or Required Materials:** None

### American Government and the Free Enterprise System
**#648A/B**

**Description:** SPECIAL NOTE: Required for ninth grade students. Must be completed for graduation. This course is a freshman required course designed to instill in students a working knowledge of U.S. Government and the American economy. One purpose of the course is to improve students’ citizenship by making them aware of the purpose and function of our government system. Units will integrate economic concepts with appropriate study of the theories, forms and needs for government; formation of the United States government, the three branches of government; and state and local systems.

**Most Applicable Career Cluster(s):** Government and Public Administration/Law, Public Safety, Corrections, and Security

**Grades:** 9, 10, 11, 12  
**Transcribed:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** None  
**Additional Fees or Required Materials:** None

### AP US Government & Politics
**#6445A/B**

**Description:** AP United States Government and Politics is a year-long course intended to increase understanding of the American political system, its frameworks, traditions and values with the goal of having each student pass the AP exam. This course is concerned with the nature of the American political system, and its development over the past two centuries. We will examine in detail the principle processes and institutions through which the political system functions, as well as some of the public policies which these institutions establish and how they are implemented. Additionally, current events and current political trends will be discussed to develop an in-depth understanding of American democracy.

**Most Applicable Career Cluster(s):** Government and Public Administration/Law, Public Safety, Corrections, and Security

**Grades:** 10, 11, 12  
**Transcribed:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** None  
**Additional Fees or Required Materials:** AP Exam fee.
SOCL STUDIES
◆ AP Human Geography
#683A/B

Grades: 9, 10, 11, 12
Transcripted: No
Credit: 1.0 credit
Length: Year
Prerequisites: None
Additional Fees or Required Materials: AP Exam fee

Description: AP Human Geography is full year introduction to college level geography to help students understand the patterns and processes that have shaped human understanding and use of the earth’s surface. The Human Geography focus studies the world through such themes as: population and migration, agriculture, natural resource allocation, industry and economic development, political geography, cultural geography, urbanization and more. AP Human Geography is structured to prepare students for the AP Human Geography test.

Most Applicable Career Cluster(s):
Agriculture, Food, and Natural Resources/Architecture and Construction/Education and Training/Government and Public Administration

SOCIAL STUDIES
◆ AP Macroeconomics
#658

Grades: 10, 11, 12
Transcripted: No
Credit: .5 credit
Length: Semester
Prerequisites: None
Additional Fees or Required Materials: AP Exam fee

Description: AP Macroeconomics is a one-semester, college-level course. Each student is expected to take the AP Macroeconomics exam that is administered in May. Successful achievement on the AP Exam allows the student to earn three hours of college credit. AP Macroeconomics emphasizes economic principles as applied to the economy as a whole. Topics include analysis of national income and its components, economic indicators, inflation and unemployment, money and banking, stabilization policies, and the United States and world trade.

Most Applicable Career Cluster(s):
Business Management and Administration/Finance/Government and Public Administration

SOCIAL STUDIES
◆ AP Psychology
#646A/B

Grades: 10, 11, 12
Transcripted: No
Credit: 1.0 credit
Length: Year
Prerequisites: None
Additional Fees or Required Materials: AP Exam fee

Description: The purpose of the Advanced Placement in Psychology is to introduce students to the systematic and scientific study of behavior and mental processes of human beings and animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields within psychology. They also learn about the methods psychologists use in their science and practice. (Taken from the Advanced Placement Course Description in Psychology by the College Board).

NOTE: This course comes under State Statute 118.019, Human Growth and Development Instruction. Please refer to the course catalog for more information.

Most Applicable Career Cluster(s):
Education and Training/Health Science/Human Services/Science, Technology, Engineering, and Mathematics

SOCIAL STUDIES
◆ AP U.S. History
#6449A/B

Grades: 11, 12
Transcripted: No
Credit: 1.0 credit
Length: Year
Prerequisites: Teacher approval
Additional Fees or Required Materials: AP Exam fee

Description: Advanced Placement U.S. History is a college level course designed to prepare students for the College Board Advanced Placement test*. Students who have taken this course have been very successful when they have taken the A.P. exam enabling some to receive three to six college credits. This course is highly recommended for students who are college bound. Includes development of college level study and writing skills with an emphasis on critical thinking.

*It is an expectation that students who enroll in AP US History will take the test offered by the College Board.

Most Applicable Career Cluster(s): Government and Public Administration/Law, Public Safety, Corrections, and Security
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Most Applicable Career Cluster(s)</th>
<th>Grades</th>
<th>Transcripted</th>
<th>Credit</th>
<th>Length</th>
<th>Prerequisites</th>
<th>Additional Fees or Required Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AP World History</strong> #6451A/B</td>
<td><em>Description:</em> AP World History is designed to be the equivalent of a two-semester introductory college or university world history course. In AP World History students investigate significant events, individuals, developments, and processes in six historical periods from approximately 8000 B.C.E to the present. Students will develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and comprehending causation, continuity and change over time. Successful completion of this course will fulfill your world history credit requirement for 10th grade.</td>
<td>Education and Training/Government and Public Administration</td>
<td>10, 11, 12</td>
<td>No</td>
<td>1.0</td>
<td>Year</td>
<td>Teacher approval</td>
<td>AP Exam fee</td>
</tr>
<tr>
<td><strong>Criminal Justice</strong> #665</td>
<td><em>Description:</em> This elective is designed to acquaint students with the American Justice system and their civil rights therein. Students will use criminal terms to help identify specific classifications and categories of crime and apply that knowledge to the real world. Through examination of the police, the courts and the correctional system students will gain an understanding of the balance between individual rights and the public good in today’s society. The use of high profile and juvenile cases will enhance this experience. Activities include lecture, research, guest speakers, audio/visual aides whenever appropriate, and discussion.</td>
<td>Government and Public Administration/Law, Public Safety, Corrections, and Security</td>
<td>10, 11, 12</td>
<td>No</td>
<td>.5</td>
<td>Semester</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td><strong>Economics</strong> #655</td>
<td><em>Description:</em> The study of Economics provides students with valuable knowledge for making decisions in everyday life. It offers a set of skills which allows individuals to effectively use cost-benefit analysis when dealing with limited time and resources. Topics will range from small-scale concepts such as spending or saving money, to large-scale concepts such as taxes and trade. Economics will help greatly in preparing students for careers in banking, insurance, service and manufacturing firms, real estate, consulting, government agencies, and non-profit organizations.</td>
<td>Government and Public Administration/Law, Public Safety, Corrections, and Security</td>
<td>10, 11, 12</td>
<td>No</td>
<td>.5</td>
<td>Semester</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td><strong>History of Asia and Russia</strong> #663</td>
<td><em>Description:</em> This one semester course is designed to give an overview, in a historical context of the Middle East and Russia and China. Through the use of supplemental readings, plus video and documentaries, we will study the course of events in these countries leading up to the present day. Students will have access to many different readings to further their understanding of the material. If you are interested in studying International Business, Politics, Foreign Relations, History, or any other related field, this class is recommended.</td>
<td>Arts, Audio/Video Technology, and Communications/Education and Training/Government and Public Administration/Law, Public Safety, Corrections, and Security</td>
<td>10, 11, 12</td>
<td>No</td>
<td>5</td>
<td>Semester</td>
<td>None</td>
<td>None</td>
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SOCIAL STUDIES
◆ History of Emerging Nations
#660

**Description:** This one semester course is designed to give an overview, in a historical context, of the Middle East and Latin America. Through the use of supplemental readings, plus video and documentaries, we will study the course of events in these regions leading up to the present day. Any student interested in current events will enjoy this class as it looks at issues that are important to our nation and the world today. If you are planning on entering the military or are interested in studying International Business, Political Science, Foreign Relations, or History, this class is recommended.

**Most Applicable Career Cluster(s):** Arts, Audio/Video Technology, and Communications/Education and Training/Government and Public Administration/Law, Public Safety, Corrections, and Security

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SOCIAL STUDIES
◆ Honors American Government and the Free Enterprise System
#661A/B

**Description:** This is a freshman required course designed to instill in students a working knowledge of U.S. Government and the American Economy. One purpose of the course is to improve students’ citizenship by making them aware of the purpose and function of our government system. Units will integrate economic concepts with appropriate study of the theories, forms, and needs for government; formation of the United States government; three branches of government; politics and elections; and state and local government. This course will begin to prepare students for college. The material is studied in more depth than in the regular class with an emphasis on critical thinking and development of study skills.

**Most Applicable Career Cluster(s):** Government and Public Administration/Law, Public Safety, Corrections, and Security

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SOCIAL STUDIES
◆ Psychology
#668

**Description:** Students will study a general overview of the following areas in psychology: memory, history of psychology, research methods, statistics, disorders, therapy, social psychology, learning, and the physiology of the brain. This course will utilize a variety of methods; including reading, note taking, discussion, experimentation, projects, and lectures. NOTE: This course comes under State Statute 118.019, Human Growth and Development Instruction. Please refer to the course catalog for more information.

**Most Applicable Career Cluster(s):** Human Services
**SOCIAL STUDIES**

◆ **Sociology**  
#670

**Grades:** 10, 11, 12  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** Sophomores must have consent of their Government Instructor.  
**Additional Fees or Required Materials:** Testing Fee is CLEP is elected.

**Description:** The major emphasis of Sociology is to attempt to understand human behavior as it occurs in group situations. Since we are all social creatures, nearly every aspect of our existence is based upon membership in one group or another. It begins with family, peers and schools, and continues into organizations and even media influences. In this course we will examine what about society contributes to making us who we are. The major units of study for the course are 1) The Sociological Perspective, 2) Social Processes 3) Social Stratification, 4) Social Patterns, and 5) Social Institutions We will also spend time discussing problems confronting society today. Class time will be spent discussing these topics, reading articles, taking notes, viewing and analyzing films, and conducting social research. Students have the option of taking the College Level Exam Program’s (CLEP) Introductory Sociology Exam for college credit at the end of the semester.  

**Note:** This course comes under State Statute 118.019, Human Growth and Development Instruction. Please refer to the course catalog for more information.

**Most Applicable Career Cluster(s):**  
Education and Training/Government and Public Administration/Hospitality and Tourism/Human Services

**SOCIAL STUDIES**

◆ **Technology and Society**  
#6870L (online)

**Grades:** 10, 11, 12  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** None  
**Additional Fees or Required Materials:** None

**Description:** ‘IT and Society’ is being developed to give students participating in Mukwonago’s IT Academy an opportunity to take an information technology focused social studies course within the framework and spirit of the IT Academy. In addition, ‘Technology and Society’ will be ideally situated as a course for any MHS student interested in exploring how information technology affects the society we live in. ‘IT and Society’ will consist of three major units:  
Unit 1: Introduction to Information Technology and a history of its development  
Unit 2: Information Technology and its impact today: how IT is reshaping philosophy, politics, sociology, journalism, psychology, etc.  
Unit 3: Information Technology and its impact on the future: how IT will reshape how students seek jobs (self-promotion), educate themselves (online education), gather news (through online journals and social media), and conduct research—with a special focus on “information ethics”.

**Most Applicable Career Cluster(s):**  
Government and Public Administration/Science, Technology, Engineering, and Mathematics

**SOCIAL STUDIES**

◆ **U.S. History**  
#673A/B

**Grades:** 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** None  
**Additional Fees or Required Materials:** None

**Description:** SPECIAL NOTE: The U.S. History requirement may also be met by taking A. P. American History.  
U.S. History is a one year basic course which meets the U.S. History graduation requirement. The course will focus on 20th Century History, with an overview of the colonial period. The objectives are student understanding of the past, and their part in democracy. Students may be required to research topics, conduct research outside class, give oral presentations, and develop notes.

**Most Applicable Career Cluster(s):** Education and Training/Government and Public Administration
<table>
<thead>
<tr>
<th>Course</th>
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<th>Transcripted</th>
<th>Credit</th>
<th>Length</th>
<th>Prerequisites</th>
<th>Additional Fees or Required Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Social Studies</strong></td>
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<tr>
<td>◆ World Geography</td>
<td>World Geography is a one-semester course that is designed to acquaint students with the way that geography influences the activities of people in various areas throughout the world. The course will use geographic tools and explore the ways that geography has influenced the political, economic, environmental, social development and contemporary issues of various regions throughout the world. This class will focus on the regions of Europe, Latin America, Africa, portions of Asia and Australia.</td>
<td>Agriculture, Food, and Natural Resources/Government and Public Administration, Health Science/Hospitality and Tourism</td>
<td>9, 10, 11, 12</td>
<td>No</td>
<td>.5</td>
<td>Semester</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>◆ World History A/B</td>
<td>Description: Students will be studying the important events and forces from the first civilizations through the early 19th Century. Political, social, religious, economic, military, geographic, and cultural themes throughout this period will be explored. Civilizations will be discussed individually; however, significant periods of more global interaction will also be addressed. Students will work with textbooks as well as some primary sources and supplemental readings. Upon completion of this course the students should have a better understanding of the past as well as the world in which they live. Special emphasis will be placed upon the development of the skills of writing, critical thinking, and notetaking. Some type-written papers may be required.</td>
<td>Most Applicable Career Cluster(s):</td>
<td>10, 11, 12</td>
<td>No</td>
<td>1.0</td>
<td>Year</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>◆ World History A</td>
<td>Description: Students will be studying the important events and forces from the first civilizations through the early 19th Century. Political, social, religious, economic, military, geographic, and cultural themes throughout this period will be explored. Civilizations will be discussed individually; however, significant periods of more global interaction will also be addressed. Students will work with textbooks as well as some primary sources and supplemental readings. Upon completion of this course the students should have a better understanding of the past as well as the world in which they live. Special emphasis will be placed upon the development of the skills of writing, critical thinking, and notetaking. Some type-written papers may be required.</td>
<td>Most Applicable Career Cluster(s):</td>
<td>10, 11, 12</td>
<td>No</td>
<td>1.0</td>
<td>Year</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
**STUDENT GOVERNMENT**

◆ **Student Government**

- **Grades:** 9, 10, 11, 12
- **Transcripted:** No
- **Credit:** 0.0 credit
- **Length:** Year
- **Prerequisites:** Good class standing. Maximum of two administrative referrals.
- **Additional Fees or Required Materials:** None

**Description:** The MHS Student Government has a three-fold purpose: 1) to represent the student body as a liaison to the administration; 2) to represent the student body in matters involving the Board of Education; and 3) to assist in the organization of student activities. To become a member of the Student Government, a nomination form must be filed with the Student Government advisor by the announced time near the beginning of second semester. Each class will select a maximum of six (6) representatives so that the total membership of the Student Government will not exceed 24 representatives. Elected persons’ names will be given by the advisor to the counseling center and, if schedules permit, those elected will be scheduled AS AN OVERLOAD into the program. The Student Government meets first period each day and REPLACES study hall. Programs Student Government works on include: 1) Fall Sports Homecoming -- Spirit Week, Pep Assembly, Court, and Dance; 2) Bloodmobile (2 per year); 3) Conference Projects; 4) Assist with Career Night; 5) Organize the Announcement Board; 6) Handle morning announcements; 7) Work with student-related issues; 8) Attend Board meetings as necessary; 9) Meet with the Superintendent as necessary; 10) Coordinate the Honors Pass program; 11) Work as a liaison to the administration in areas of complaints; 12) Coordinate the Activity Scholarship; 13) Attend Conference Council Committee meetings as necessary; 14) Set up assembly programs; and 15) Attend WASC Region IV, State and Leadership Conferences. Student Government is made up of six representatives from each class and has four internally elected officers.

**Most Applicable Career Cluster(s):**
Government and Public Administration/Law, Public Safety, Corrections, and Security
Innovation Lab is the entry level course for all Technology & Engineering pathways.

**Innovation Lab**

**Grades 9 & 10**
- Intro to Engineering Design (IED)
- Principles of Engineering (POE)
- Digital Electronics (DE)
- Computer Integrated Manufacturing

**Grades 11 & 12**
- Machine Tool I
- Welding I
- Machine Tool II
- Welding II
- Welding III

- Advanced Woodworking
- Architectural Design
- Furniture/Cabinet Making
- Construction
- Building Trades

**Enrichment/Complementing Courses to Pathways**

**Engineering**
- All Math Courses
- Physics
- Welding
- Manufacturing
- Architectural Drafting

**Manufacturing**
- All Math Courses
- Intro to Engineering Design
- Intro to Woodworking
- Digital Electronics

**Construction**
- All Math Courses
- Intro to Engineering Design
- Digital Electronics
- Entrepreneurship
- Design It Yourself

**Automotive**
- All Math Courses
- Intro to Engineering Design
- Welding
- Manufacturing
- Digital Electronics
### Career Options:

#### Entry level with no formal higher education
- Foundry Worker
- Janitorial/Maintenance
- Assembly Line Worker
- With Associates Degree or formal Certification
- Manufacturing Systems Tech
- Machinist
- Tool + Die Maker/Tech
- CNC Operator/ Tech
- Welder
- Industrial Mechanic
- Automation Tech
- For those with Bachelor's Degrees or higher
- Safety Engineer
- Manufacturing Engineer
- Welding Co Management
- Machining Management

#### Some Career Options:

#### Entry level with no formal higher education
- Construction Laborer
- Roofer
- Highway Maintenance
- Tile Setter
- Construction Retail Associate
- Carpet Install Asst
- Carpenters
- Mason
- Heating/Cooling Tech
- Drywallers/Plasterers
- Electrician
- Surveyor
- Heavy Equipment Operator
- For those with Bachelor's Degrees or higher
- Architect
- Landscape Architect
- Engineer
- Computer Design
- Teacher
- Construction Managers

#### Science, Technology, Engineering & Mathematics

#### Entry level with no formal higher education
- Foundry Worker
- Janitorial/Maintenance
- Assembly Line Worker
- With Associates Degree or formal Certification
- Manufacturing Systems Tech
- Machinist
- Tool + Die Maker/Tech
- CNC Operator/ Tech
- Welder
- Industrial Mechanic
- Automation Tech
- For those with Bachelor's Degrees or higher
- Safety Engineer
- Manufacturing Engineer
- Welding Co Management
- Machining Management

#### Transportation, Distribution & Logistics

#### Entry level with no formal higher education
- Hardware Store Asst
- Auto/Truck Dealer Worker
- Automotive Store Asst
- Oil Change Shop Asst
- Motorcycle Shop Asst
- Airport Worker
- Boating Store Asst
- With Associates Degree or formal Certification
- Auto Body Tech
- Auto Glass Specialist
- Auto Mechanic
- Motorcycle Mechanic
- Diesel Mechanic
- Boat Mechanic
- Airline Mechanic
- Small Engines Mechanic
- Trucker
- Bus Driver
- For those with Bachelor's Degrees or higher
- Engineer
- Logistics Management
- Teacher
- Safety Engineer
- Pilot
- Air Traffic Control
**Advanced Woodworking** #3782

**Grades:** 10, 11, 12  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** Intro to Woodworking  
**Additional Fees or Required Materials:** Safety Glasses, Fee for student project

**Description:** This is a course for students interested in learning more about different woodworking techniques in furniture and cabinetmaking. Emphasis is placed on safety, design, construction, and fabrication of projects. Students will plan, design and construct a project of choice. Students will be required to pay for materials for all take home projects. Approved safety glasses must be supplied by students.

**Most Applicable Career Cluster(s):** Architecture and Construction/Manufacturing

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**Architectural Design** #344

**Grades:** 9, 10, 11, 12  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** None  
**Additional Fees or Required Materials:** .5mm mechanical pencil

**Description:** This course is designed for those students who intend to pursue occupations in architecture or construction. Emphasis is placed on the design and construction related to architecture. Those students interested in architecture will concentrate on the design and technical skills needed to design a residential structure using Autodesk Revit software. Students are asked to purchase a folder and one (1) inexpensive 0.5mm mechanical pencil or a package of #2 lead pencils.

**Most Applicable Career Cluster(s):** Architecture and Construction/Science, Technology, Engineering, and Mathematics

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**Auto Service Technology I** #3506A/B

**Grades:** 11, 12  
**Transcripted:** No  
**Credit:** 1.0 - 2.0 credit  
**Length:** Year  
**Prerequisites:** Basic Auto or Instructor Consent Course  
**Additional Fees or Required Materials:** Safety Glasses

**Description:** This is the second course in the auto technology sequence. Students will study the systems of Electricity/Electronics, Steering and Suspension, and Engine Performance. Students may also enroll in the youth apprenticeship portion of the program will receive work-site instruction in these systems with wages. Approved safety glasses must be supplied and worn by students. All vehicles brought into the auto lab must have a valid, permanent or daily, "Mukwonago High School" parking permit. NOTE: Youth Apprentices receive 1 additional credit for work release.

**Most Applicable Career Cluster(s):** Transportation, Distribution, and Logistics
## Auto Service Technology II

**Description:** This is the third course in the auto technology sequence. Students will cover units 3 and 4 of the AYES Auto Technician Apprenticeship Program. Topics covered include brake system service, engine performance and diagnosis, steering and suspension service as well as skills needed for advanced standing at WCTC. Students **may** also enroll in the Youth Apprenticeship Co-op portion of the program and be eligible to receive up to two (2) credits for the on-the-job portion, one (1) credit for the in-school portion, plus earn wages for time spent at work. Both co-op students and apprenticeship students will be eligible for early release privileges. Students must furnish and wear approved safety glasses. All vehicles brought into class must have a valid permanent or daily "Mukwonago High School" parking permit. **Students may take the course and elect not to participate in the work/co-op credit portion.**

**Note:** See the Career Planning Guide at the beginning of this section for Automotive Technician Youth Apprenticeship for course sequence.

**Seniors** may take both Automotive Service I and II courses the same school year.

**Most Applicable Career Cluster(s):**
- Transportation, Distribution, and Logistics

### TECHNOLOGY AND ENGINEERING EDUCATION

### Basic Auto Mechanics

**Description:** NOTE: This course is required to enter into the AYES and the Automotive Youth Apprenticeship Program. Students will study the various systems of the modern automobile. Topics covered include: lab safety, careers, general service procedures, tune-up procedures, electrical system service, fuel systems, and many of the new NATEF Auto Maintenance and Light Repair Certification competency’s.

Approved safety glasses must be supplied and worn by student. All vehicles brought into the auto lab must have a valid, permanent or daily, "Mukwonago High School" parking permit.

**Most Applicable Career Cluster(s):**
- Transportation, Distribution, and Logistics

### Building Trades

**Description:** Building Trades is an occupational preparation class designed to develop skills in residential construction and construction-related trades. Students will work with a local home builder to help build a full size model home from start to finish. Students will learn and participate with all aspects of what goes into residential construction, and go to the worksite and help with many of the different trades. It will be the student’s responsibility for his or her transportation to and from the work site. Proper work attire will need to be worn, but tools will be supplied. The student will earn 2 transcripted credits through WCTC upon successful passing of this course.

**Note:** Acceptance into course is based on meeting prerequisites (Construction course) and approval of instructor.

**Most Applicable Career Cluster(s):** Architecture and Construction
### Construction #366

**Description:** This course is designed to introduce the student to the construction and woodworking areas. Emphasis will be placed on measuring and math skills which will be needed throughout this course and that of machine woods. The students will begin by learning about the basic tools used in industry. The students will also learn how to frame a wall model as well as how to shingle a roof and install electrical wiring and drywall. Additional topics covered will include: concrete and brick work. Approved safety glasses must be supplied.

**Most Applicable Career Cluster(s):** Architecture and Construction/Manufacturing

### Furniture / Cabinetmaking #368A/B

**Description:** This course will introduce the furniture and cabinetmaking student to the various stages of construction and assembly of wood products and related materials. This course is intended to provide students with the knowledge and skills necessary to design, construct, and finish furniture and/or cabinets in the woodworking industry. Through the course activities the student will gain an understanding of safety procedures, machine operation, and industrial applications. The appropriate use of technology and industry-standard equipment is an integral part of this course.

**Most Applicable Career Cluster(s):** Architecture and Construction

### Innovation Lab #352

**Description:** Innovation Lab is a semester class offered to Freshmen and Sophomores. This course is designed to offer students a solid foundation of the manufacturing and engineering processes. Students will utilize wood, metal, and other composite materials to create a variety of hands-on products. Students will use 3D design software, CNC equipment, laser engraving technology, and a variety of manufacturing techniques used in today's local industries. This course will help to show students the vital connections between engineering and manufacturing.

**Most Applicable Career Cluster(s):** Architecture and Construction/Manufacturing

### Intro to Woodworking #378

**Description:** This is a course for students interested in developing introductory skills in woodworking techniques. Emphasis is placed on safety, design, construction, and fabrication of projects. Two required projects and an individual project of student choice will be required. Students will be required to pay for materials for all take home projects. Approved safety glasses must be supplied by students.

**Most Applicable Career Cluster(s):** Architecture and Construction/Manufacturing
### Machine Tool I
#375

**Description:** The Machine Tool 1 course is a comprehensive study of precision metalworking. The students will gain advanced manufacturing skills applying blueprint reading, metrology and part layout while using engine lathes, milling machines and surface grinders. Students can take advantage of our new Haas CNC machining center and work in our newly renovated machining lab. Highly recommended for those students pursuing engineering degrees. Students supply their own safety glasses.

**SPECIAL NOTE:** This is the first of two courses required to complete the Manufacturing Youth Apprenticeship/Co-op program. If student chooses to get a job in Manufacturing (optional), he/she receives 2 credits – 1 credit for the classroom per year and 1 credit per year for the work experience. If the work experience is chosen, the student will be released early each day in order to go to work. Engineering internships may apply. Students may also earn three credits to WCTC after successfully completing both classes as referenced above.

**Most Applicable Career Cluster(s):** Manufacturing/Science, Technology, Engineering, and Mathematics

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<th>Grades</th>
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<tr>
<td>Transcribed</td>
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<td>Credit</td>
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<td>Length</td>
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<td>Prerequisites</td>
<td>Manufacturing</td>
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<td>Additional Fees or Required Materials</td>
<td>Safety Glasses</td>
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### Machine Tool II
#377A/B

**Description:** Machine Tool 2 is designed to lead students to career readiness with machining competencies necessary to successfully compete in a technically challenging manufacturing industry. The course expands on the precision machining skills acquired in the Machine Tool I course. Students will acquire CNC/CAD/CAM skills featuring Prototrac, MasterCam, AutoDesk Inventor, and Haas CNC software. This course will also explore engineering methods and the design process. Students supply their own safety glasses; there will be a small fee for all take-home projects.

**SPECIAL NOTE:** This is the second of two courses required to complete the Manufacturing Youth Apprenticeship/Co-op program. If student chooses to get a job in Manufacturing (optional), he/she receives 3 credits – 1 credit for the classroom per year and 2 credit per year for the work experience. If the work experience is chosen, the student will be released early (seniors only) each day in order to go to work. Engineering internships may apply. Students may also earn three credits to WCTC after successfully completing both classes as referenced above.

**Most Applicable Career Cluster(s):** Manufacturing/Science, Technology, Engineering, and Mathematics

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<th>Grades</th>
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<td>Prerequisites</td>
<td>MACHINE TOOL I</td>
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<td>Additional Fees or Required Materials</td>
<td>Safety Glasses</td>
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### Manufacturing
#379

**Description:** Wisconsin ranks first among the 50 states in manufacturing jobs per capita. The MHS Manufacturing class is a hands-on course that applies the mechanical basics needed for skilled trades and engineering students alike. Students will learn technical processes including measurement, blueprint reading and part layout. Product planning, organization, logical thinking and safe workplace habits will be stressed. Students will be introduced to the Haas CNC machining center and work in our newly renovated machining lab featuring milling machines, lathes, drill presses, surface grinders, digital readouts and applicable hand tools. Students are expected to supply their own safety glasses; there may be a small lab fee for any take home projects.

**Most Applicable Career Cluster(s):** Manufacturing/Science, Technology, Engineering, and Mathematics

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<thead>
<tr>
<th>Grades</th>
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<td>Prerequisites</td>
<td>None</td>
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<tr>
<td>Additional Fees or Required Materials</td>
<td>Safety Glasses, Small fee for take home projects</td>
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</table>
TECHNOLOGY AND ENGINEERING EDUCATION

◆ PLTW: Digital Electronics
#363A/B

| Grades: | 10, 11, 12 |
| Transcribed: | No |
| Credit: | 1.0 credit |
| Length: | Year |
| Prerequisites: | Any one of the following: Intro to Engineering Design, Principles of Engineering, or Algebra |

**Additional Fees or Required Materials:** None

**Description:** This course is the study of electronic circuits that are used to process and control digital signals. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, and high-definition televisions. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

This PLTW course will allow the student to earn college credit at a number of universities. By earning a passing score on the End of Course Assessment (EOC) a student can submit for college credit. Because of the number of options available, please see your course instructor or counselor for more details on how to take advantage of this great opportunity.

**Most Applicable Career Cluster(s):** Science, Technology, Engineering, and Mathematics

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TECHNOLOGY AND ENGINEERING EDUCATION

◆ PLTW: Introduction to Engineering Design
#390A/B

| Grades: | 9, 10, 11, 12 |
| Transcribed: | No |
| Credit: | 1.0 credit |
| Length: | Year |
| Prerequisites: | None |

**Additional Fees or Required Materials:** None

**Description:** Introduction to Engineering Design (IED) emphasizes the development of a design. Students use the design process and problem-solving method to design new products and improve existing products using Autodesk Inventor 3D modeling software. This course emphasizes research and analysis, teamwork and communication, and an exploration of career opportunities in the field of engineering. Students will learn the documentation process for work and communicate solutions to peers and members of the professional community. Opportunities to explore 3D printing as well as the newly renovated Machining lab/Haas CNC mill will be offered.

This PLTW course will allow the student to earn college credit at a number of universities. By earning a passing score on the End of Course Assessment (EOC) a student can submit for college credit. Because of the number of options available, please see your course instructor or counselor for more details on how to take advantage of this great opportunity.

**Most Applicable Career Cluster(s):** Science, Technology, Engineering, and Mathematics

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TECHNOLOGY AND ENGINEERING EDUCATION

◆ PLTW: Principles of Engineering
#391A/B

| Grades: | 10, 11, 12 |
| Transcribed: | No |
| Credit: | 1.0 credit |
| Length: | Year |
| Prerequisites: | PLTW: INTRO TO ENGINEERING DESIGN or Consent of Instructor |

**Additional Fees or Required Materials:** None

**Description:** Principles of Engineering is the second course in the high school Project Lead the Way sequence. Designed for 10th or 11th grade students, this survey course exposes students to major concepts they’ll encounter in the post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics including Vex robotics applications. Students develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work, and communicate solutions.

This PLTW course will allow the student to earn college credit at a number of universities. By earning a passing score on the End of Course Assessment (EOC) a student can submit for college credit. Because of the number of options available, please see your course instructor or counselor for more details on how to take advantage of this great opportunity.

**Most Applicable Career Cluster(s):** Science, Technology, Engineering, and Mathematics
### Small Engines

**Description:** Student enrolling in Small Engines will study the piston type, internal combustion small engine. Instruction includes the use of repair manuals, internal combustion engine theory, safety, tools, and factory service procedures necessary to completely overhaul an engine. Students are expected to furnish either a Briggs and Stratton or Tecumseh four-cycle engine. The lab grade for this course will be based on assigned tasks and on engine maintenance. Students will be expected to supply the needed parts for proper engine repair as well as bring to class and wear approved safety glasses.

**Most Applicable Career Cluster(s):** Science, Technology, Engineering, and Mathematics/Transportation, Distribution, and Logistics

**Grades:** 9, 10  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** None  
**Additional Fees or Required Materials:** Safety Glasses

### Welding I

**Description:** SPECIAL NOTE: This is the first of two courses required to complete the Welding Youth Apprenticeship/Co-op program. As a Junior, if student chooses to get a job in Welding (optional), he/she receives 2 credits – 1 credit for the classroom per year and 1 credit per year for the work experience. If the work experience is chosen, the student will be released 7th period each day in order to go to work. This hands-on course is an introduction to the large and diverse field of welding, including some homeowner applications. The course will deal in welding theory and practice, plus such operations as grinding, measuring, cutting, drilling, and finishing. *The student is required to supply approved safety glasses, welding gloves, and suitable clothing to wear in class.

**Most Applicable Career Cluster(s):** Manufacturing/Science, Technology, Engineering, and Mathematics

**Grades:** 10, 11, 12  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** None  
**Additional Fees or Required Materials:** Safety Glasses & Welding Gloves

### Welding II

**Description:** SPECIAL NOTE: This is the second of two courses required to complete the Welding Youth Apprenticeship/Co-op program. As a Senior, if student chooses to get a job in Welding (optional), he/she receives 3 credits – 1 credit for the classroom per year and 2 credits per year for the work experience. If the work experience is chosen, the student will be released 6th & 7th period each day in order to go to work. This hands-on course is an introduction to the large and diverse field of welding, including some homeowner applications. The course will deal in welding theory and practice, plus such operations as grinding, measuring, cutting, drilling, and finishing. *The student is required to supply approved safety glasses, welding gloves, and suitable clothing to wear in class.

**Most Applicable Career Cluster(s):** Manufacturing/Science, Technology, Engineering, and Mathematics

**Grades:** 10, 11, 12  
**Transcripted:** No  
**Credit:** .5 credit  
**Length:** Semester  
**Prerequisites:** Welding I  
**Additional Fees or Required Materials:** Safety Glasses & Welding Gloves

### Welding III

**Description:** This hands-on course is a continuation into the large and diverse field of welding, including some homeowner applications. The student will do various types of welding, such as Shielded Metal Arc Welding and Gas Metal Arc Welding and Gas Tungsten Arc Welding. This projects in this course will require the students to use the welding skills gained in welding I and welding II as well as engineering and math skills. Students will be given blueprints to fabricate projects that will enforce the ideas of problem solving and teamwork.

**Most Applicable Career Cluster(s):** Manufacturing/Science, Technology, Engineering, and Mathematics

**Grades:** 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Welding I and Welding II  
**Additional Fees or Required Materials:** Safety Glasses & Welding Gloves
Description: Wisconsin’s Youth Apprenticeship program is a part of a statewide School-to-Work initiative. It is designed for high school students who want hands on learning in an occupational area at a worksite along with classroom instruction. This one or two year elective program combines academic and technical instruction with mentored on-the-job learning. This is a paid work experience and students will earn high school credit and a state certificate. It is possible that students could earn postsecondary credit as well. Students completing a one year Youth Apprenticeship will be required to fulfill 450 work hours, and a two year Youth Apprenticeship will require 900 work hours.

Content Areas:
- Architecture & Construction
- Manufacturing
- Transportation, Distribution & Logistics
- STEM

Grades: 11, 12
Transcripted: No (State Recognized Certificate)
Credit: 1.0 credit per semester
Length: Year
Prerequisites: Enrolled in a content related class for duration of Apprenticeship
Additional Fees or Required Materials: None
World Language
Course Offerings and Course Sequence

- German I #270 A/B
- German II #272 A/B
- German III #274 A/B
- German IV #276 A/B
- German V #278 A/B

- Spanish I #290 A/B
- Spanish II #292 A/B
- Spanish III #294 A/B
- Spanish IV #296 A/B
- Spanish V #298 A/B

Each World Language course meets the requirements for the Global Education Achievement Certificate. See page 12 for details.

MHS Career Related Co-Curricular:
- German Club
- Spanish Club
- International Club

Some Career Options:
- Entry level with no formal higher education
  - Hotel Clerk
  - Bell Hop
  - Waiter/Waitress/Bus/Cook
  - Child Care Asst
  - Construction
  - Mail Carrier
  - Flight Attendant
  - Landscape/Golf Course Maint.

- With Associates Degree or formal Certification
  - Hospital Aide
  - Caterer
  - Library Asst
  - Hotel/Restaurant Manager
  - Teaching Asst
  - Event Planner

- For those with Bachelor’s Degrees or higher
  - Librarian
  - Teacher
  - Speech/Language Pathologist
  - Professor
  - Translator/Interpreter
  - Lawyer
  - Sign Language Interpreter
  - Military Officer
  - International Business
  - Emergency Management
  - Pilot
  - Peace Corps
  - Advertising
  - Nursing/Health Care
  - Marketing
  - Banking/Finance

https://www.wicareerpathways.org/Students/Clusters/Hospitality-Tourism
https://www.wicareerpathways.org/Students/Clusters/Government-PublicAdministration
https://www.wicareerpathways.org/Students/Clusters/Education-Training
### WORLD LANGUAGE

#### German I

**#270A/B**

**Description:** In German I, students learn basic vocabulary, essential phrases and grammatical structures as the first step towards communication in German. Cultural topics include: free time activities, sports, dining in a restaurant, shopping, holidays and school-life in Germany. Classroom work includes oral practice, student dialogs and interviews, songs, and other types of active participation. Homework is assigned on a daily basis and special projects are assigned periodically.

**Most Applicable Career Cluster(s):**
Manufacturing/Science, Technology, Engineering, and Mathematics

#### German II

**#272A/B**

**Description:** In German II, students review and expand upon the vocabulary and structures learned in German I. Students broaden the scope and sophistication of their language skills by active participation in classroom activities that include pair work, role-playing activities, student interviews, discussions and writing activities. Cultural topics include: vacationing in Germany, teenage life in Germany, movies and music in Germany, holidays and school-life.

**Most Applicable Career Cluster(s):**
Manufacturing/Science, Technology, Engineering, and Mathematics

#### German III

**#274A/B**

**Description:** In German III students will continue to refine speaking and writing skills by using the language in authentic contexts. Maximum use of German by the teacher and students is an integral part of this course. Classroom activities include: partner work, oral presentations, listening and writing activities, music, and work on improving reading strategies.

**Most Applicable Career Cluster(s):**
Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications
**German IV**

**#276A/B**

**Grades:** 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** German 3  
**Additional Fees or Required Materials:** Notebook, folder and German/English dictionary are required. German IV students are required to take the AATG National German Exam.

**Description:** In German IV, students will continue to improve their proficiency in German by active involvement in a variety of classroom activities. Students learn more sophisticated sentence structures, expand their range of vocabulary, view and discuss a German video series, read authentic texts, participate in discussions in German and produce a video for statewide competition. Maximum use of German is an integral part of this course. This advanced course prepares students to write the university placement exam for college credit.

**Most Applicable Career Cluster(s):**  
Manufacturing/Science, Technology, Engineering, and Mathematics  

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**German V**

**#278A/B**

**Grades:** 11, 12  
**Transcripted:** Available  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** C or better in German IV  
**Additional Fees or Required Materials:** A notebook, folder, and access to a German/English dictionary are required. Students will take the AATG National German exam in preparation for their college placement exams.

**Description:** German V is a course designed to not only review and strengthen the language strategies and grammar learned in the previous levels, but to also explore and discuss these concepts in depth. Students will give oral presentations on various topics, broaden their understanding of German culture through selected readings and discussions on relevant topics as well as read a short novel. This advanced course is strongly recommended for students who intend to take the AP exam or the UW placement exams for retroactive college credits.

German V is also offered as a college-level, dual-enrollment class through the University of Wisconsin-Green Bay. If the course is successfully completed (generally a B- or better) the student will earn a transcript from UW-Green Bay with 11-14 credits of transferable credit to the college they attend. The majority of colleges and universities will accept these credits, although a few private institutions may not. There is a fee for the dual enrollment course.

**Most Applicable Career Cluster(s):**  
Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications  

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**Spanish I**

**#290A/B**

**Grades:** 9, 10, 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** No  
**Additional Fees or Required Materials:** 3-ring binder, colored pencils and highlighter required.

**Description:** In this course, students are introduced to Spanish language and culture and begin learning to speak, read, write, and understand Spanish. Culture is embedded in the lessons. Students will make connections to other disciplines and their daily lives. Course includes individual and group practice. Grades are based on communication, assignments and performance on oral and written assessments.

**Most Applicable Career Cluster(s):**  
Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications
### Spanish II
**#292A/B**

**Grades:** 9, 10, 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** Spanish I  
It is recommended that a student have a "C" or higher in the third trimester in 8th grade or the second semester in the HS Spanish I course to enroll in Spanish II at MHS.  
**Additional Fees or Required Materials:** 3 ring binder, colored pencils and highlighter required.

**Description:** In this course, students continue learning to speak, read, write, and understand Spanish. Students further develop conversation and comprehension skills while negotiating meaning through real-life situations. Culture is embedded in the lessons. Students will make connections to other disciplines and their daily lives. Course includes individual and group practice. Grades are based on communication, assignments and performance on oral and written assessments.

**Most Applicable Career Cluster(s):**  
Arts, Audio/Video Technology, and Communications/Business Management and Administration/Education and Training/Health Science

### Spanish III
**#294A/B**

**Grades:** 9, 10, 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** A minimum of "C" in Spanish II.  
**Additional Fees or Required Materials:** 3 ring binder, colored pencils and highlighter required.

**Description:** In this course, students continue learning to speak, read, write, and understand Spanish. Students further develop conversation and comprehension skills while negotiating meaning through real-life situations using Spanish. Culture is embedded in the lessons. Students make connections to other disciplines and their daily lives as well as explore future study and career opportunities enhanced by second language acquisition. Classroom work includes individual and group written and spoken practice and other types of active participation. Grades are based on communication, assignments and performance on oral and written assessments.

**Most Applicable Career Cluster(s):**  
Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications

### Spanish IV
**#296A/B**

**Grades:** 10, 11, 12  
**Transcripted:** No  
**Credit:** 1.0 credit  
**Length:** Year  
**Prerequisites:** A minimum of "C" in Spanish III to enroll  
**Additional Fees or Required Materials:** 3 ring binder, colored pencils and highlighter required.

**Description:** Students continue to develop their speaking, reading, writing and comprehension skills by using the language in functional situations. Classroom activities include individual and partner/small group oral and written work. Students will make connections across cultures and disciplines as they acquire the skills which will enable them to work and live in a global society. Maximum use of Spanish is an integral part of this course. Grades are based on assignments, communication and assessments. This advanced course prepares the students for the AP exam and/or the placement exam for retroactive college credits.

**Most Applicable Career Cluster(s):**  
Agriculture, Food, and Natural Resources/Architecture and Construction/Arts, Audio/Video Technology, and Communications
Description: Spanish V is designed to refine and expand upon the student's knowledge gained during their first four years of studying the language. In this class students are expected to converse, read, write and listen in Spanish for the entire class period. Special emphasis placed upon conversation and presentations. Students will work with a variety of authentic audio & texts, including news reports, films, television series, blogs, and podcasts. Students also will engage in many readings including short stories, poetry and news articles. The aforementioned is designed to prepare the students to possess real life skills in Spanish while also preparing them for the University system placement test, or the AP placement test.

Spanish V is also offered as a college-level, dual-enrollment class through the University of Wisconsin-Green Bay. If the course is successfully completed (generally a B- or better) the student will earn a transcript from UW-Green Bay with 11-14 credits of transferable credit to the college they attend. The majority of colleges and universities will accept these credits, although a few private institutions may not. There is a fee for the dual enrollment course.

Most Applicable Career Cluster(s):
Agriculture, Food, and Natural Resources/Business Management and Administration/Education and Training/Government and Public Administration

Grades: 11, 12
Transcripted: Available
Credit: 1.0 credit
Length: Year
Prerequisites: A minimum of "C" in Spanish IV to enroll
Additional Fees or Required Materials: 3 ring binder, colored pencils and highlighter, composition notebook, earbuds/headphones required.

Description: This semester-long elective course is designed for students who want to practice Spanish conversational skills and learn about culture for enrichment or for those students who are not ready for the rigorous grammar that traditional World Language study requires. This course will be an appropriate elective for students taking 4 years of German to earn the Global Certificate. Students will learn the basics of Spanish grammar and be able to talk about themselves, friends, family, travel and leisure activities and daily life. They will explore the practices and perspectives of various Hispanic cultures. This class could be a stepping stone to Spanish I and is intended to inspire interest in travel, study and work abroad as well as an appreciation for other cultures.

Most Applicable Career Cluster(s):
Agriculture, Food, and Natural Resources/Business Management and Administration/Education and Training/Government and Public Administration

Grades: 9, 10, 11, 12
Transcripted: No
Credit: .5 credit
Length: Semester
Prerequisites: None
Additional Fees or Required Materials: 3 ring binder, colored pencils and highlighter, composition notebook, earbuds/headphones required.
SPECIAL SERVICES

In accordance with Public Law 94-142, the Mukwonago Area Schools provide services for all children with an identified exceptional education need (EEN) at the secondary level. Students eligible for exceptional education services meet criteria for disabilities set forth by PI11 and the Individuals with Disabilities Act IDEA.

Registration in Special Education classes is done through the Individual Education Plan (IEP) Committee. Consent of Special Education Teachers is required for course registration. Students and parents are advised to see their lead teacher for course recommendations.

The Speech and Language (SL) program serves students with receptive and expressive language disorders.

The Specially Designed Physical Education (SDPE) program serves students with significant motor delays.

Students taking Special Education classes are eligible for the Honor Roll and the Academic Recognition Program. Special Education grades will be included in calculating eligibility for these programs. However, a student may take a maximum of two Special Education classes per semester (or a total of 8 credits in four years) for him/her to be included in the school rank-in-class system. Special Education classes are not incorporated in the grade point average when calculating rank in class status.

EQUAL OPPORTUNITY

It is the policy of the Mukwonago Area School District, pursuant to Section 118.13, Wis.Statutes., and PI9 that no person may be denied admission to any public school in this district or be denied participation in, be denied the benefits of, or be discriminated against in any curricular, extracurricular, pupil service, recreational, or other program or activity because of the person’s sex, race, color, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, religion, physical, mental, emotional or learning disability or handicap in its educational programs or activities. The district further complies with federal laws that also prohibit discrimination as defined by Title IX of the Education Amendments of 1972 (sex), Title VI of the Civil Rights Act of 1964 (race, color, and national origin), Section 504 of the Rehabilitation Act of 1973 (disability), and by the Age Discrimination Act of 1975 (age).

Questions regarding compliance should be addressed to: Andy Trudell – Title IX 605 W. Veterans Way Mukwonago, WI 53149 Tel. No. (262) 363-6200 ext. 25581
Tim Lemke - Equal Opportunity Officer 385 E. Veterans Way Mukwonago, WI 53149 Tel. No. (262) 363-6300 ext. 24200 (Revised 7-17-07, 6-30-09, 7/14/09 by M. Towle) (Reviewed 5-17-04, 7-13-05).

Direct any questions to the student's counselor at (262) 363-6200

Carla Brenton (x 25404)
Jay Christiansen (x 25403)
Tim Kujawa (x 25402)
Paige Patenaude (x25405)
NOTICE TO PARENTS
STATE STATUTE 118.019 HUMAN GROWTH & DEVELOPMENT INSTRUCTION

Each school board that provides an instructional program in human growth and development shall annually provide the parents of each pupil enrolled in the school district with an outline of the human growth and development curriculum used in the pupil's grade level and information regarding how the parent may inspect the complete curriculum and instructional materials. The school board shall make the complete human growth and development curriculum and all instructional materials available upon request for inspection at any time, including prior to their use in the classroom.

No pupil may be required to take instruction in human growth and development or in the specific subjects under sub. (2) if the pupil's parent files with the teacher or school principal a written request that the pupil be exempted.

The topics that are identified as pertaining to human growth and development instruction are as follows:

   a. Self-esteem, responsible decision making and personal responsibility.
   b. Interpersonal relationships.
   c. Discouragement of adolescent sexual activity.
   d. Family life and skills required of a parent.
   e. Human sexuality; reproduction; contraception; including atural family planning; prenatal development; child-birth; adoption; available prenatal and postnatal support; and male responsibility.
   f. Sex stereotypes and protective behavior.

This course catalog contains the following courses that offer one or more human growth and development components:

Ninth Grade Health Education (Required-Human Education Dept.)
Advanced Health (Elective-Human Education Dept.)
Consumer Education (Elective-Family & Career Dept.)
Child Care Services (Elective-Family & Career Dept.)
Future Parenting (Elective-Family & Career Dept.)
Child Guidance (Elective-Family & Career Dept.)
Criminal Justice/Lifestyles (Elective-Social Studies Dept.)
Psychology (Elective-Social Studies Dept.)
AP Psychology (Elective-Social Studies Dept.)
Sociology (Elective-Social Studies Dept.)