



Whitmer High School

Curriculum Guide

Program of Studies
2020-2021



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Individual attention, infinite opportunities

Statement of Compliance with Federal Laws

The Washington Local School District complies with federal law, which prohibits discrimination in programs and activities receiving federal assistance.

- Title VI of the Civil Rights Act of 1964 prohibits discrimination on the basis of race, color or national origin.
- Section 504 of the Rehabilitation Act of 1973 prohibits discrimination on the basis of handicap.
- The Age Discrimination Act of 1975 prohibits discrimination on the basis of age.

The Washington Local School District also complies with the Family Education Rights and Privacy Act of 1974, which grants to parents/guardians the right to examine their children's official school records. Inquiries regarding unlawful discrimination may be directed to Ms. Lori Berryman, Director, Human Resources, Washington Local Schools, 3505 West Lincolnshire Boulevard, Toledo, Ohio 43606, or by calling 419-473-8226.



Whitmer High School

Panther Nation

Dear Whitmer Students and Families,

At Washington Local Schools we are proud to be able to provide students with a challenging and diverse selection of courses and programs. We strive to give students infinite opportunities and individual attention, through our rigorous academics and outstanding extracurricular activities, to help our students reach their highest potential. We encourage you to read this curriculum guide thoroughly and discuss the options available with your family, school counselors, and teachers as you consider which classes support your long-term goals.

We ask that you choose a rigorous path and select carefully from the over two hundred course offerings available at Whitmer High School. Also, consider getting involved in our wide variety of clubs and activities. By referring to the table of contents, you will be able to locate valuable information that will assist in answering questions during this important process.

At Washington Local Schools, we exist to provide excellent education and individual attention, as we unconditionally love all kids and families, fuel passion, define purpose, and lead all to infinite opportunities.

We look forward to helping you complete this scheduling process and support you on your path to a bright future.

Sincerely,

Kristine Martin, Principal



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The information contained in this curriculum guide is accurate at the time of printing. Please note this is a fluid document and changes may occur due to scheduling needs.



GRADUATION REQUIREMENTS

1 CREDIT REQUIREMENTS

As a member of the **class of 2021 and 2022** you must earn a minimum total of 21 credits in specified subjects and take your required tests.

English Language Arts	4 credits
Health	1 credit
Mathematics	4 credits
Physical Education	½ credit
Science	3 credits
Social Studies	3 credits
Electives	5½ credits

Other Requirements: You also must receive instruction in economics and financial literacy and complete at least two semesters of fine arts. More details are available on page 6.

2 ORIGINAL GRADUATION PATHWAYS

1 Ohio's State Tests

Earn at least 18 points on seven end-of-course state tests which include **Algebra I or Integrated Math I, Geometry or Integrated Math II, English I, English II, American History, American Government, and Biology**. Each test score earns you up to 5 graduation points. You must have a minimum of 4 points in math, 4 points in English, and 6 points across science and social studies.

2 Industry Credential and Workforce Readiness

Earn a minimum of 12 points by receiving a State Board of Education-approved, industry-recognized credential or group of credentials in a single career field and earn the required score on WorkKeys, a work-readiness test.

3 College and Career Readiness Tests

Earn remediation-free scores in mathematics and English language arts on either the ACT or SAT. The Ohio Department of Higher Education works with Ohio's universities to set the remediation-free scores for the ACT and SAT tests.

3 ADDITIONAL PATHWAY OPTIONS

If you are unable to meet any of the above Pathways, you can meet new requirements by demonstrating competency and readiness for a job, college, military, or a self-sustaining profession. You can demonstrate competency by earning a passing score on Ohio's high school Algebra I and English II tests. Students who do not pass the test must retake the test at least once.

Option 1 Demonstrate 2 Career-Focused Activities

Foundational (at least one):

- Proficient scores on WebXams
- A 12-point industry credential
- A pre-apprenticeship or acceptance into an approved apprenticeship program

Supporting

- Work-based learning
- Earn the required score on WorkKeys
- Earn the OhioMeansJobs Readiness Seal

Option 2 Enlist in the Military

Show evidence that you have signed a contract to enter a branch of the U.S. armed services upon graduation.

Option 3 Complete College Coursework

Earn credit for one college-level math and/or college-level English course through Ohio's free College Credit Plus program.

Students who plan to graduate using one of the 3 optional pathways must also earn two of the following diploma seals. These seals give you the chance to demonstrate academic, technical and professional skills and knowledge that align to your passions, interests and planned next steps after high school. At least one of the two must be Ohio-designed. More details about each seal can be found on our website:

- OhioMeansJobs Readiness Seal (Ohio)
- Industry-Recognized Credential Seal (Ohio)
- College-Ready Seal (Ohio)
- Military Enlistment Seal (Ohio)
- Citizenship Seal (Ohio)
- Science Seal (Ohio)
- Honors Diploma Seal (Ohio)
- Seal of Biliteracy (Ohio)
- Technology Seal (Ohio)
- Community Service Seal (Local)
- Fine and Performing Arts Seal (Local)
- Student Engagement Seal (Local)



GRADUATION REQUIREMENTS – Class of 2023 and Beyond

Ohio’s new graduation requirements consist of three key components:

1 CREDIT REQUIREMENTS

The **class of 2023 and beyond** (students entering 9th grade on or after July 1, 2019) must earn a minimum total of 21 credits in specified subjects.

English Language Arts	4 credits
Health	½ credit
Mathematics	4 credits
Physical Education	½ credit
Science	3 credits
Social Studies	3 credits
Electives	5½ credits

Other Requirements: You also must receive instruction in economics and financial literacy and complete at least two semesters of fine arts. More details are available on the next page.

2 COMPETENCY DEMONSTRATION

Students must also earn a passing score on Ohio’s high school Algebra I and English II tests. Students who do not pass the tests must retake the test at least once. If you are unable to meet the Ohio State Test requirement, there are three additional options to show competency.

Option 1 Demonstrate 2 Career-Focused Activities

Foundational (at least one):

- Proficient scores on WebXams
- A 12-point industry credential
- A pre-apprenticeship or acceptance into an approved apprenticeship program

Supporting

- Work-based learning
- Earn the required score on WorkKeys
- Earn the OhioMeansJobs Readiness Seal

Option 2 Enlist in the Military

Show evidence that you have signed a contract to enter a branch of the U.S. armed services upon graduation.

Option 3 Complete College Coursework

Earn credit for one college-level math and/or college-level English course through Ohio’s free College Credit Plus program.

3 READINESS DEMONSTRATION

Students must also earn two of the following diploma seals. These seals give you the chance to demonstrate academic, technical and professional skills and knowledge that align to your passions, interests and planned next steps after high school. At least one of the two must be Ohio-designed. More details about each seal can be found on our website:

- OhioMeansJobs Readiness Seal (Ohio)
- Industry-Recognized Credential Seal (Ohio)
- College-Ready Seal (Ohio)
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- Science Seal (Ohio)
- Honors Diploma Seal (Ohio)
- Seal of Biliteracy (Ohio)
- Technology Seal (Ohio)
- Community Service Seal (Local)
- Fine and Performing Arts Seal (Local)
- Student Engagement Seal (Local)



CREDITS AND COURSES

Beginning with the class of 2021, students are required to earn 21 units/credits to meet graduation requirements. These include:

English: 4 Units

- 1 unit of English 9
- 1 unit of English 10
- 1 unit of English 11
- 1 unit of an English elective

Math: 4 Units

- 1 unit of Algebra
- 1 unit of Geometry
- 1 unit of Algebra II
- 1 unit of a math elective

Science: 3 Units

- 1 unit of Physical Science
- 1 unit of Biology
- 1 unit of a science elective

Social Studies: 3 Units

- 1 unit of American History
- 1 unit of World History
- 1 unit of American Government

Physical Education/Health: 1 Unit

- ½ unit of P.E.
- ½ unit of Health

Fine Arts: 2 Units (earned in grades 7-12)

Fine Arts encompass artistic work in the areas of visual arts and performing arts. This requirement is waived for students in Career Technology programs.

Financial Literacy:

Requirement met through participation in World History, American Government, Economics, or Money Management and Financial Literacy.

Electives:

Remaining credits needed to arrive at 21 credits and should include one or any combination of foreign language, fine arts, business, career-technical education, technology, or English language arts, mathematics, science, or social studies courses not otherwise required.

Any pre-approved education options (summer school or credit recovery programs) must be completed and on file at Whitmer High School by the designated deadlines. Transfer students must have an official transcript on file from their previous school.

AWARDING CREDIT

Students will be awarded credit upon successful completion of each course. Students will earn .5 credit for semester period courses and will earn .5 credit for each semester for year-long period courses. Physical Education courses are worth .25 credits per semester. Some courses in the Career Technology programs may be worth 1 credit. All credits will be awarded at the end of each semester. Students in a year-long course who do not earn a passing grade for the first semester will receive an F on the transcript and will remain in the course for second semester. Credits for career and technology programs are awarded at the end of the school year (Board Policy 5124.5). On-Line courses not finished by the end of the semester or during summer school will show on the transcript as an F.

AWARDING CREDIT FOR STATE TESTED SUBJECTS*

Beginning with the Spring, 2020 Ohio State Tests, Whitmer High School will honor the Ohio Department of Education's recommendation to allow students to earn high school credit when scoring proficient, accelerated, or advanced (3, 4, or 5) on an Ohio State Test even if the corresponding tested core class is failed. Courses that qualify include English II, Algebra I, Geometry, Biology, American History, and Government. The failing grade will remain on the student's transcript and the failing grade will impact the student's grade point average. The student will receive up to 1.0 credit for the course. WHS awards credit by the semester. Students will only receive credit for failing semester grades. For example, if a student earned a C during the first semester, but failed the second semester, the transcript will show a "F" for the second semester only.

* Please see page 10 for more information on how OST test-out affects athletic eligibility at the high school and college level.



Class of 2021 and beyond must meet these requirements for Honors Diploma:

For more information on honors diplomas, please meet with your counselor or visit <http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Honors-Diplomas>.

Ohio High School Honors Diploma



Criterion	Ohio Diploma	Academic Honors Diploma	International Baccalaureate Honors Diploma	Career Tech Honors Diploma	STEM Honors Diploma	Arts Honors Diploma (Includes dance, drama/theatre, music, and visual art)	Social Science & Civic Engagement Honors Diploma
Math	4 units, must include one unit of algebra II or equivalent	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	5 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content ⁴	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content
Science	3 units	4 units, including two units of advanced science ²	4 units, biology, chemistry, and at least one additional advanced science ²	4 units, including two units of advanced science ²	5 units, including two units of advanced science ²	3 units, including one unit of advanced science ²	3 units, including one unit of advanced science ²
Social Studies	3 units	4 units	4 units	4 units	3 units	3 units	5 units
World Languages	N/A	3 units of one world language, or no less than 2 units of each of two world languages studied	4 units minimum, with at least 2 units in each language studied	2 units of one world language studied	3 units of one world language, or no less than 2 units of each of two world languages studied	3 units of one world language, or no less than 2 units of each of two world languages studied	3 units of one world language, or no less than 2 units of each of two world languages studied
Fine Arts	2 Semesters	1 unit	1 unit	N/A	1 unit	4 units	1 unit
Electives	5 units	N/A	N/A	4 units of Career-Technical minimum ³	2 units with a focus in STEM courses	2 units with a focus in fine arts course work	3 units with a focus in social sciences and/or civics
GPA	N/A	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale
ACT/SAT/Workkeys¹	N/A	27 ACT/1280 SAT ⁸	27 ACT/1280 SAT ⁸	27 ACT/1280 SAT ⁸ /Workkeys (6 Reading for information & 6 Applied Mathematics) ⁷	27 ACT/1280 SAT ⁸	27 ACT/1280 SAT ⁸	27 ACT/1280 SAT ⁸
Field Experience	N/A	N/A	Complete a field experience and document the experience in a portfolio specific to the student's area of focus ⁵	Complete a field experience and document the experience in a portfolio specific to the student's area of focus ⁵	Complete a field experience and document the experience in a portfolio specific to the student's area of focus ⁵	Complete a field experience and document the experience in a portfolio specific to the student's area of focus ⁵	Complete a field experience and document the experience in a portfolio specific to the student's area of focus ⁵
Portfolio	N/A	N/A	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts ⁶	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts ⁶	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts ⁶	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts ⁶	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts ⁶
Additional Assessments	N/A	N/A	N/A	Earn an industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent	N/A	N/A	N/A



DIPLOMAS

A **traditional diploma** is awarded to students who complete the required curriculum of Whitmer High School and meet one of the three Ohio state graduation requirements or pathways outlined on pages 4 and 5. Whitmer students can also gain state recognition for exceeding Ohio's graduation requirements through an **honors diploma**. Students in the class of 2021 and beyond must, use the criteria established if the student chooses to pursue one of six honors diplomas described on page 7.

Any student may earn the diploma seals described on pages 4 and 5. Please contact your counselor for more information.

Diplomas and transcripts will be held for any student who owes fees.

GRADUATION CEREMONY

Every senior must have successfully completed one of the identified state pathways, which includes earning the required credits, in order to participate in the graduation ceremony. Keep in mind that participating in commencement is a privilege. No student who has completed all the requirements shall be denied a diploma; however, a student may be denied participation in commencement exercises when his/her personal conduct so warrants and/or if he/she does not attend the mandatory graduation exercises as documented by the high school principal. A student who chooses not to participate in the commencement exercises may pick up his/her diploma the week after commencement. Diplomas and transcripts will be held for any student who owes fees.

JANUARY GRADUATES

Any senior wishing to complete graduation requirements at the end of the first semester of their senior year must complete the necessary paperwork and meet with his/her counselor prior to the end of first semester. To be considered to be a January graduate, students who apply must complete all graduation requirements, including credit and Ohio State Test points, or other graduation pathways, by the end of first semester. It is the responsibility of the student to plan for this January graduation option in advance. Consideration for this option may not be accepted once the second semester begins. If the student plans on participating in the commencement exercises, he/she must indicate their wishes to participate on the January graduate application and attend the mandatory graduation exercises as documented by the high school principal.

JUNIOR GRADUATES

Any junior wishing to graduate after three years of high school must complete the necessary paperwork and meet with his/her counselor prior to the end of first semester. If the student is able to meet the graduation requirements, including credits and Ohio State Test points, by the end of the school year, the application will be given to the principal for review. The principal or the designee will meet with the student and approve or deny the request for early graduation. If the request is approved, the junior student will be able to participate in activities for the graduating class. If the student plans on participating in the commencement exercises, he/she must attend the mandatory graduation exercises as documented by the high school principal.

SENIOR PICTURES

All senior images for the yearbook must be taken by Prestige Photography. Students do not have to purchase senior pictures from Prestige Photography. Students may schedule a "yearbook only" session at Prestige or there will be an opportunity to have their picture taken during an open session, hosted by Prestige Photography, during the school day at Whitmer. The date for the open session will be announced in the fall. If a picture is to appear in the senior section of the yearbook for underclassmen graduating early, arrangements must be made by the student with the yearbook advisor. **The senior picture can appear in only one yearbook.** If the student fails to meet the graduation requirements his/her picture will not be included in the yearbook the following school year.



SUMMER SCHOOL AND CREDIT RECOVERY

Whitmer offers two computer-based credit recovery options. Students may choose to enroll in the after-school credit recovery program and/or summer school. Both credit recovery and summer school are designed to allow students to retake courses they previously failed, and are not intended to be used to earn new credit for required math, English, science, or social studies courses. Students are permitted to take Physical Education during summer school for new credit. There is a fee associated with credit recovery and summer school.

If a student is struggling with grades, students are encouraged to speak with his/her teacher, a counselor, or an administrator. A failing grade in any course will impact a student's transcript and progress on meeting graduation requirements.

GRADING SCALE AND WEIGHTED GRADES

Grade point averages will be calculated on the following 10-Point grading scale:

% Grade	Letter Grade	Quality Points	Honors Quality Points	AP Quality Points
93-100	A	4.0	4.5	5.0
90-92	A-	3.7	4.2	4.7
87-89	B+	3.3	3.8	4.3
83-86	B	3.0	3.5	4.0
80-82	B-	2.7	3.2	3.7
77-79	C+	2.3	2.8	3.3
73-76	C	2.0	2.5	3.0
70-72	C-	1.7	2.2	2.7
67-69	D+	1.3	1.8	2.3
63-66	D	1.0	1.5	2.0
60-62	D-	0.7	1.2	1.7
0-59	F	0	0	0

CLASS RANK/ACADEMIC HONORS

Beginning with the graduating class of 2020, Whitmer High School no longer recognizes a Valedictorian or Salutatorian. Determination for graduation honors will be based on a student's cumulative grade point average at the end of the 8th semester of high school using the Latin Honors system. Students achieving summa cum laude honors, who wish to deliver a speech during the graduation ceremony, will be permitted to complete the application process.

Students with grade point averages 3.5 or higher are recognized using the Latin Honors system. Graduating students will be awarded honors sashes during the Senior Breakfast and will be recognized during the graduation ceremony. The categories for distinction under the Latin Honors system are as follows:

Summa cum laude - "with the highest praise" is the highest recognition awarded at graduation. To graduate summa cum laude, a student must achieve a 4.0 or higher grade point average on a weighted 4.0 scale.

Magna cum laude - "with great praise" is the second highest recognition awarded at graduation. To qualify for magna cum laude, a student must achieve a 3.750 - 3.999 grade point average on a weighted 4.0 scale.

Cum laude - "with praise" is the third recognition awarded at graduation. To qualify for cum laude, a student must achieve a 3.500 – 3.749 grade point average on a weighted 4.0 scale.



COURSE RETAKE OPTION

Any student who earns a D+, D, or D- in any course, excluding College Credit Plus courses, may retake the course for an improved grade. The grade and credit from the original course will be deleted from the transcript. The grade and credit earned from the retaken course will be part of the permanent record and recalculated into the student's GPA.

ATHLETIC ELIGIBILITY – High School

Interscholastic athletics are a valuable part of student life at Whitmer High School. In all matters of eligibility, Whitmer High School will abide by the rules and regulations of the Ohio High School Athletic Association (OHSAA). Eligibility for participation in interscholastic activities for any given quarter will be based upon the student's grades for the quarter previous to the activity. In grades 9-12, a student must have passed a minimum of five (5) one credit courses or the equivalent, which count towards graduation; and all grades, when combined, equal a total GPA of at least 1.0 on a four point (4.0) scale. Students who transfer to Whitmer may not be eligible to participate in athletics. OHSAA by-laws will govern all cases of eligibility for transfer students.

High School Athletics and OST Test Out: Please note, to be eligible to play interscholastic high school sports, a student must be currently enrolled in Whitmer High School and must have been enrolled in five full-credit courses during the immediately preceding grading period. At the conclusion of the high school's grading period, a student enrolled in the OST Test Out options must be passing at least five full-credit courses, in which they are enrolled, to establish athletic eligibility. The OST Test Out would not count as a passing class.

ATHLETIC ELIGIBILITY – College NCAA

Any student interested in participating in college-level athletics must notify his/her counselor as soon as possible, even as early as the student's freshman year. The counselor will guide the student to carefully choose NCAA approved courses throughout high school. Students and parents are encouraged to collaborate with the counselor periodically to review the student's transcripts to make sure the student is on track to meet the academic eligibility requirements. Student athletes who wish to participate in Division I or II college athletics must register with the NCAA Eligibility Center at www.eligibilitycenter.org, the end of their junior year or the beginning of their senior year. Students should make sure ACT scores are sent directly to the NCAA clearinghouse (Code 9999). Students enrolled in College Credit Plus should communicate with their counselor, colleges, and universities to make sure that he/she is meeting all eligibility requirements set forth by NCAA and Whitmer High School. The NCAA has approved certain courses for use in establishing the initial eligibility certification status of student athletes from Whitmer High School. Approved courses will have a "▲" in the course description. More information can be found at NCAAEligibilityCenter.com.

College Athletics Eligibility and OST Test Out: Students who anticipate continuing participation in sports at the college level should note that the NCAA eligibility requirements specifically address the types of learning opportunities available through the OST Tested Out policy. The NCAA **does not allow** "credit by exam" (or Test Out) courses to be applied to core course eligibility requirements.

SPECIAL EDUCATION SERVICES

Whitmer High School strives to meet the academic needs of all students and to provide a variety of educational options based on those individual needs. Special education services are provided to students with disabilities as defined by the *Individuals with Disabilities Education Act (IDEA)*. Students who are identified for special education services will be scheduled into the required core academic classes in the least restrictive environment, from a resource room setting to inclusion support within the general education setting, as determined by the student's educational team.



SCHEDULING PROCEDURES

Whitmer High School students are required to maintain full-time status. Students must register for a full schedule for the entire year during spring registration. Prior to scheduling, students should discuss course selections with their parents or guardians, using this curriculum guide as a reference. A parent or guardian must sign the completed registration form. Please note some courses may be cancelled due to low enrollment and alternative choices the student made will be assigned by the counselor to complete the schedule.

FLEX SCHEDULING

Students may apply for flex scheduling during their **senior year** to participate in transitional activities. Post-secondary Transition Activities provide students with opportunities to explore and further develop their post-secondary goals through release time from the school schedule. Post-secondary Transition Activities may include one or more of the following: early job placement, internships, mentorships, community outreach/service projects, etc. Seniors may request up to 2 periods, a.m. and/or p.m., flexible schedule. An a.m. flexible schedule will allow for a delayed start. Students must report to their first scheduled class each day by the scheduled time. A p.m. flexible schedule will allow for an early release time. Students may leave the Whitmer campus after their last class concludes. All flexible schedule requests are contingent upon the master schedule and course requirements for graduation. Students may flex schedule any career tech programs or courses. Students requesting an early release or late start schedule must complete the contract that is available in the Counseling Center. In order to be considered for flex scheduling students must meet all of the following criteria:

- Attendance rate of 93% or better during junior year
- No major discipline issues junior year – example: IRP, Suspension or Expulsion
- Minimum GPA requirement:
 - Students with a GPA of 3.0 or better may flex up to 2 periods
 - Students with a GPA of 2.75-2.99 may flex 1 period
- On track with credits (18 credits – 4 math, 4 ELA, 3 science & 3 SS)
- On track with OST points (18 points with at least 4 math, 4 ELA, 6 science & SS)

SCHEDULE ADJUSTMENT

This curriculum guide is prepared to furnish both the student and the parent/guardian with the necessary information to choose an appropriate high school schedule. It is extremely important that the student give serious attention to the selection of courses for the next school year. Our master schedule is constructed to accommodate the courses requested by students during spring registration. ***Student-initiated schedule changes will not be made after June 1, 2020. Be advised changes may be made by staff. Please note schedule changes will not be permitted, including when a student decides they are not interested in a particular class or the student did not complete the summer project; this includes HONORS and AP classes.*** However, in the event of a scheduling error, or if the student needs a course to fulfill a graduation requirement, or has completed a course in summer school, an attempt will be made to adjust the student's schedule.

COURSE FEES

Course fees may be charged in courses where special materials, workbooks, and/or supplies are furnished to students. Fees may be paid by cash, check, or credit card (Visa, MasterCard, or Discover) at Whitmer High School in August during Orientation/Schedule Pick-Up or during school hours in the Activities Office. Fees may also be paid online through PayForIt. Course fees are noted throughout this guide where applicable.

COLLEGE CREDIT PLUS (CCP)

Under the Amended H.B. 59 Section 363.590, Ohio has established a post-secondary enrollment option to permit college-ready students in grades seven through twelve to earn high school and college credit through successful



completion of college courses. The program is intended to provide opportunities for appropriately qualified high school students to experience coursework at the college or university level. Eligibility for the program depends on the requirements established by the college or university. More information on the various CCP options is presented during a mandatory meeting for interested students and families held at Whitmer High School each year in January.

If a student is interested in participating in the CCP program, a letter of intent needs to be signed by the parent and student and must be turned in to the Whitmer Counseling Center by April 1, 2020 for the 2020-21 school year. After a student submits the letter of intent, the student must go through the procedures established by the colleges/universities to apply for admission and to enroll in the course(s). Whitmer High School will not enroll any student into a college or university or register any student into any classes. Acceptance into the CCP program is determined by the college or university and students will need to take a college placement test, such as the ACT or Accuplacer, to assure college readiness.

Prior to college class attendance, students should meet with a counselor at Whitmer High School to ensure the student is working towards fulfilling graduation requirements. After a student registers for classes at a college or university, the student must provide a copy of the college schedule to the college and career counselor for review. Transportation to and from the college/university is the responsibility of the student and the student's family. Any transportation and/or parking pass fees are the responsibility of the student and his/her family.

CCP classes will be documented on both the Whitmer High School and the college/university's transcript. CCP classes that are failed (F) or are awarded a CR will receive an F on the high school and college transcripts. The F will be computed into the high school and college GPA. If a student withdraws from CCP classes, the student will receive a W on both the high school and college transcript. If a student does not receive a passing grade or withdraws from a CCP class after 14 days, the district will seek reimbursement for the amount of state funds paid to the college on the student's behalf for that college course. If a student withdraws from a CCP class, the student is required to notify Whitmer High School's College and Career Counselor within 24 hours. This will allow the student to maintain full time status. The student will be placed in a course at Whitmer High School.

More information about the CCP program can be found on the Ohio Department of Higher Education website.

THE COUNSELING CENTER

The services provided in the Counseling Center are designed to assist the individual student to make the most of his/her abilities and opportunities while at Whitmer High School. Each student is assigned to a counselor. Services include, but are not limited to, the following:

- Course selections and scheduling issues
- Monitoring graduation requirements
- Academic intervention
- Career information
- Post-high school planning options
- College Credit Plus program
- Counseling students regarding issues that affect their academic progress
- Discussion of personal concerns, friends and relationships, and social/emotional well-being
- Referral to school and community resources

The Counseling Center staff values the opportunity to help students and they are always available in times of crisis. Students needing to speak with a counselor in non-crisis situations should fill out a request form in the Counseling Center. Counselors will meet with students as soon as possible. The Counseling Center staff also includes the district's social worker, who can provide support services and access to community resources. These services are available to all students.



Counseling Center Staff:

NAME	CASELOAD	PHONE NUMBER
Mrs. McNamara	A - D	419-473-8403
Mrs. Boes	E - K	419-473-8474
Mr. Ewearitt	L - R	419-473-8401
Mr. Puffenberger	S - Z	419-473-8471
Miss Fairchild	Transition Counselor	419-473-8333
Mrs. Moeller	College/Career	419-473-8470
Mrs. Borkowski	Malcolm Bain Academy/CTC	419-473-8331
Mrs. Swisher	Social Worker	419-473-8336
Ms. Kusic	Associate Principal	419-473-8473
Ms. Spencer	Secretary	419-473-8402
Mrs. Merritt	Secretary	419-473-8469
Ms. Kiser	Secretary – Attendance	419-473-8492

PLANNING YOUR HIGH SCHOOL SCHEDULE

Developing a four-year plan is essential to making the most of your education at Whitmer. Upon graduation from Whitmer, what are your future career/educational plans? What courses offered at Whitmer High School will help prepare you for these future goals? Take time to fill in the four-year planner with the necessary courses needed for your future career/educational plans.

Four-Year High School Course Planner

FRESHMAN YEAR: (7 total credits)	SOPHOMORE YEAR: (6.5 total credits)
English 9 A and B (or Honors) Algebra I A and B (or appropriate recommended math class) World History A and B (or Honors) Physical Science A and B (or Honors) Health A and B Elective: Elective: Elective: Elective:	English 10 A and B (or Honors) Geometry A and B (or appropriate recommended math class) American History A and B (or Honors) Biology A and B (or Honors) Physical Education Elective: Elective: Elective: Elective:
JUNIOR YEAR: (7 or 8 total credits)	SENIOR YEAR: (7 or 8 total credits)
English 11 (or Honors) Algebra II (or appropriate recommended math class) Government (or AP) Required Science Choice: Elective or Career Technology Program: Elective: Elective: Elective: Elective:	Required English 12 elective: Required Math elective: Any other graduation requirement needed: Elective or Career Technology Program: Elective: Elective: Elective: Elective:



COLLEGE COUNSELING

The counselors at Whitmer High School help students prepare for life beyond high school, maximize opportunities, excel in a career or college, and successfully complete a college degree. Also, the counselors are able to provide assistance in college admissions planning through a variety of supports and available resources. The Whitmer counseling website includes information regarding the college search and selection process. An array of links allows students to explore their specific college interests.

Whitmer's College & Career Counselor offers checklists and college resource guides that help students and parents/guardians through the process of post-secondary planning. The college counselor provides parent support through the college search and selection process by hosting several parent meetings throughout the academic year. The College Information and FAFSA Night is held early in the Fall, and the College Credit Plus Meeting is held in January. Students and parents/guardians can arrange to meet with the college & career counselor by contacting her directly.

COLLEGE FAIRS AND COLLEGE VISITS

College fairs allow students to gather information about their colleges of interest. WHS participates in the planning of the local Toledo Area Spring College Fair, held in the spring at the University of Toledo. College representatives visit WHS in the fall to meet with interested students in the Counseling Center during the school day. The schedule for these is available on the website. A student may schedule a meeting with the college representative by signing up in the Counseling Center at least one day in advance and making prior arrangements with teachers to complete any missed class work. Students are encouraged to visit colleges as an integral part of their college planning. The visits, including a campus tour and interviews, should be arranged at least three weeks in advance. Students must complete a Whitmer College Visit form in order for a college visit to be approved as an excused absence. Classroom teachers must be consulted in order to avoid conflicts with tests, quizzes, and other classroom activities.

COLLEGE ENTRANCE TESTING

Students will be required to take the ACT during the 2nd semester of their junior year. Students who earn a remediation-free score in math and English/language arts may use this score as their graduation pathway. Students are able to send the scores from this assessment to colleges and universities. As students research colleges, they should note colleges and universities have different entrance exam requirements. It is the responsibility of the student to register and take the correct exams. Counselors are available to assist students with researching admission requirements. All college entrance exam materials are available in the Counseling Center, with links included on the counseling website. Those who intend to apply under one of the early notification plans should take the entrance exams before the end of junior year. **College Entrance Exams include:**

- **[ACT \(American College Test\) - www.act.org](http://www.act.org)**
The ACT is generally taken during the junior and/or fall of the senior year. Students receive scores in English, reading, math, science, and writing as well as a composite score. This test is open to any college-bound student. The test is offered seven times a year in September, October, December, February, April, June, and July.
- **[Pre-ACT - www.act.org](http://www.act.org)**
The Pre-ACT is a multiple choice assessment that provides 10th graders with short practice for the ACT. This test is optional. Students register and pay a fee established by the ACT to take this test during the sophomore year at Whitmer.
- **[SAT Reasoning Test \(Scholastic Assessment Test\) - www.collegeboard.org](http://www.collegeboard.org)**
The SAT is generally taken during the junior and/or senior year. Students receive a Verbal, Math, and Writing score. This test is open to any college-bound student. The test is offered approximately six times during the academic school year.
- **[SAT Subject Tests \(Scholastic Assessment Test: Subject Tests\) - www.collegeboard.org](http://www.collegeboard.org)**
These are one hour tests which measure a student's knowledge of specific subjects and his/her ability to apply that knowledge. Certain colleges require this test. Check with the college you plan to attend. The test is offered several times during the academic school year. Students can take up to three tests at one sitting.



ART

In the high school art curriculum, students explore the elements and principles of design, techniques for artwork production, creative problem-solving, and art appreciation. Writing assignments are given to reinforce terminology, techniques, and ideas. Exemplary art work is submitted for jurying each year for participation in national, congressional, state, and local competitions. The high standards set by the art department guide students with a casual interest in art, but also, through portfolio development, encourage students who will be pursuing a college career in art.

Advanced Art 2-D

(A122)

Credit: .5

Length: Semester period

Grade: 9

Prerequisite: Advanced Art in 8th grade or teacher recommendation

Fee: \$25

Students in this class will build on skills and techniques introduced during Advanced Art in junior high. This class is designed to give students a strong foundation in painting, drawing, printmaking, and other two-dimensional studio areas. Students will study perspective, color theory, the elements of art, and the principles of design, among other studio techniques. There will be a strong emphasis on students learning techniques while developing their own style and ideas for their work through creative problem-solving, discussions, critiques, and writing about artwork. This class will focus on building a solid foundation for freshmen who are interested in art and would like to pursue future studies in the arts at Whitmer.

Art Foundations 2-D

(A112)

Credit: .5

Length: Semester period

Grade: 9-10

Prerequisite: None

Fee: \$25

This is an excellent beginning course for any student and any artistic level. You will not need any artistic ability or background to be successful. Students will learn a variety of drawing and painting skills and techniques that will improve their ability to communicate visually. This course introduces students to the elements and principles of design while concentrating on two-dimensional forms of art. Drawing, painting, printmaking, photography, and other two-dimensional forms of artwork may be explored. Classroom studio experiences may include: shading and drawing with pencils, portrait drawing, painting and color theory, collage, and graphic design basics. The studio experience will give students the opportunity to explore a variety of media: pencils, charcoal, acrylic paint, watercolor, etc. There will be a strong emphasis on students learning techniques while developing their own style and ideas for their work through creative problem-solving, discussions, critiques, and writing about artwork.

Advanced Art 3-D

(A123)

Credit: .5

Length: Semester period

Grade: 9

Prerequisite: Advanced Art in 8th grade or teacher recommendation

Fee: \$25

Students in this class will build on skills and techniques introduced during Advanced Art in junior high. This class is designed to give students a strong foundation in ceramics, sculpture, linear perspective, and other three-dimensional studio areas. Students will study perspective, color theory, the elements of art, and the principles of design. There will be a strong emphasis on students learning techniques while developing their own style and ideas for their work through creative problem-solving, discussions, critiques, and writing about artwork. This class will focus on building a solid foundation for freshmen who are interested in art and would like to pursue future studies in the arts at Whitmer.



Art Foundations 3-D

(A113)

Credit: .5
Length: Semester period
Grade: 9-10
Prerequisite: None
Fee: \$25

This is an excellent beginning course for any student and any artistic level. It is designed to be the complement to the Art Foundations 2-D course that focuses on drawing. This course is more hands-on, and involves creating/building art in three dimensional form. This course introduces students to the elements and principles of design while concentrating on three-dimensional forms of art. Sculpture, ceramics, relief, and other three-dimensional forms of artwork will be explored. Classroom studio experiences may include: working with clay, wire, plaster, and paper mache. Students will also learn to draw images in perspective and paint three-dimensional objects. The studio experience will give students the opportunity to explore a variety of media to make sculptural art. There will be a strong emphasis on students learning techniques while developing their own style and ideas for their work through creative problem solving.

Art for Seniors

(A120)

Credit: .5 credit per semester
Length: Year-long period
Grade: 12
Prerequisite: None
Fee: \$30

Art for seniors is a studio course offering students an opportunity to explore a wide variety of art projects and to learn techniques to express creative ideas through art. This class introduces students to a range of fun projects such as drawing, printmaking, ceramics, wood-burning, paper mache, glass etching, and more. All seniors are welcome, but if you have not had a chance to take art before, this is a fun, creative chance to explore your artistic side.

Ceramics I

(A201)

Credit: .5 credit per semester
Length: Year-long period
Grade: 10-12
Prerequisite: None
Fee: \$30

This class will introduce students to building with clay. Emphasis will be placed on the design elements of art: line, shape, texture, and color. Focus will be on the hand-building techniques: pinch, coil, and slabs. Functional as well as sculptural applications will be explored. You will be creating functional artwork from clay, such as cups, bowls, and teapots. Students will be introduced to the craft of wheel-thrown pottery on a limited basis. Various glaze and decoration techniques for finishing work will be introduced in the beginning class.

Ceramics II

(A202)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11-12
Prerequisite: "C" or higher in Ceramics I
Fee: \$30

This course will build upon many of the skills that were acquired in Ceramics I. Throwing on the potter's wheel will be more deeply explored. Focus will be on the hand-building techniques: pinch, coil, and slabs. Functional as well as sculptural applications will be explored. You will be creating functional artwork from clay, such as cups, bowls, and teapots. The design and creation of a series of work, such as a dinnerware set, will be created.



Computer Art I (A401)

Credit: .5 credit per semester

Length: Year-long period

Grade: 10-12

Prerequisite: None

Fee: \$30

If you like creating art, enjoy working with computers, or would like to learn more about computers and art, this class is for you. In this class you will learn how to use the computer to create digital graphic images using a variety of computer programs. Students will use photo manipulation programs, drawing programs, and will utilize digital cameras and/or scanners to create artwork. No prior computer knowledge is needed.

Computer Art II (A402)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: Computer Art I or teacher recommendation

Fee: \$30

If you want to further explore creating digital artwork on the computer, this class would be the next step. In Computer Art II you will continue to explore the use of the computer to create digital graphics and learn new ways of manipulating digital images using bitmap software such as Photoshop and Photo Paint. Students will also learn how to create and work with 3-D images using a variety of 3-D programs.

Drawing I (A301)

Credit: .5 credit per semester

Length: Year-long period

Grade: 10-12

Prerequisite: Art Foundations or Advanced Art 2-D or 3-D

Fee: \$30

If you like drawing, and would like to learn the drawing tricks to make your images look more real, this class is for you. In this class you will learn how to take your visual ideas and draw them out in a realistic way. Students will learn a variety of drawing techniques and will learn how to shade their work to make it look 3-D. Various types of drawing media will be used throughout the class.

Drawing II (A302)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: "C" or higher in Drawing I

Fee: \$30

If you want to further explore drawing, or would like to start to work on your portfolio of drawings, this class would be the next step. In Drawing II you will continue to enhance your drawing skills and learn new ways of expressing your visual ideas through the use of different types of media (pastels, Prisma color pencils, and ink).

Fabric Arts (A500)

Credit: .5 credit per semester

Length: Year-long period

Grade: 10-12

Prerequisite: None

Fee: \$30

Remember tie-dying? What if you could control the dye and plan your design? You can! Fabric Arts is a class where various uses of textile media are explored. One of the most amazing techniques uses colored dyeing and painting on silk. Other projects may include printing on a variety of fabric, marbled fabric, and finally, exposing photographs onto fabric.



Painting I (A511)

Credit: .5 credit per semester
Length: Year-long period
Grade: 10-12
Prerequisite: Art Foundations or Advanced Art 2-D or 3-D recommended
Fee: \$30

The majority of the class will be devoted to learning to paint with acrylics. A wide variety of subject matter will be explored to help students create paintings. The second portion of the class will focus on both opaque and transparent watercolor painting techniques. Students will be encouraged to experiment using many different approaches both with subject matter and media.

Painting II (A512)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11- 12
Prerequisite: "C" or higher in Painting I
Fee: \$30

This class is an extension of Painting I, with a concentration on advancing the student's skills with acrylic, watercolor, and oil paint techniques. The subject for paintings will be based on direct observation as well as choices in a variety of styles and subject matter. Students are encouraged to refine their individual painting styles while creating works that are expressive and thought provoking.

Photography I (A601)

Credit: .5 credit per semester
Length: Year-long period
Grade: 10-12
Prerequisite: None
Fee: \$35

Everybody takes pictures. In Photography you will learn how to make photographs. This class is designed to acquaint students with all aspects of fine art photography as well as the tremendous role photography plays in everyday life. Every student will become familiar with numerous darkroom techniques and produce photographic images using a variety of tools and techniques.

***Students must have access to a 35mm camera.**

Photography II (A602)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11-12
Prerequisite: "C" or higher in Photo I
Fee: \$35

Photography II is a class designed for students ready to explore their most creative capabilities. We will build on the technical aspects learned in Photography I as well as techniques that use modern digital media.

***Students must have access to a 35mm camera.**



Printmaking I

(A701)

Credit: .5 credit per semester

Length: Year-long period

Grade: 10-12

Prerequisite: None

Fee: \$30

Printmaking is a course in the expression of ideas and in some of the processes, materials, and methods used in printmaking. In addition to learning to use materials and processes that are new to you, you are encouraged to experiment, explore your ideas, and take some risks. The course will introduce you to monotypes and mono-printing, relief printing, etching, and other forms of printing. Printmaking allows you to become a human copy machine. You will make printing plates and from those plates you can make many copies of your own work.

Printmaking II

(A702)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: Printmaking I

Fee: \$30

Printmaking II is for those students interested in further exploring some of the processes, materials, and methods used in Printmaking I. Printmaking II will have an emphasis on individual projects and ideas. Combining techniques learned in Printmaking I will be encouraged. In this course you will further explore monotypes and mono-printing, relief printing, etching, and choose to continue working in the area that you like the best.

Portfolio Development

(A900)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: Application required

Fee: \$30

This course is for the serious, self-motivated student who intends to pursue studies in their desired media. Students who have successfully completed coursework in an advanced art class can apply. This class is designed to be geared toward a self-guided and motivated art student. Each student will be expected to develop a series of artworks to be exhibited in local, state, and national competitions as well as college entry boards. Applications can be secured from the department chairperson.

Sculpture

(A800)

Credit: .5 credit per semester

Length: Year-long period

Grade: 10-12

Prerequisite: None

Fee: \$30

Enjoy building? Want to experiment using 3-D objects as expressive tools? Try building with glass or wood or wire in Sculpture. Would you like to make jewelry too? We do that as well. Metal rings, pendants, cuffs, and belt buckles can all be made and later etched or enameled for a truly professional look.



CAREER TECHNOLOGY EDUCATION

Opportunities for intense career training are abundant at Whitmer High School. Introduction courses are offered to freshmen and sophomores as a starting point in preparing them for specialized training in one of our career technical programs. Our programs are certified college tech-prep programs that provide students with college-level academics and advanced technology in preparation for entering a two or four-year college. Students enrolled in career technology programs may be able to receive college credit or can begin careers immediately after graduation. Some of the CTE courses offer honors credit. Career & Technical Education can be a clear path to college and to a rewarding career. The Whitmer Career and Technology Center offers the following programs:

Advanced Manufacturing	Engineering*
Automotive Technology*	Emergency Medical Technician*
Computer Networking/Information Technology*	Marketing
Construction*	Media Arts*
Cosmetology	Medical Technology*
Criminal Justice*	Medical Assisting Skills*
Culinary Arts*	Teaching Professions*
Cybersecurity	Welding*
Digital Graphic Design*	

*Students who are enrolled in these programs may receive honors weighting and college credit through CTAGS or College Credit Plus (CCP). CTAG's are credits that can transfer to any public institution of higher education where there are articulation and transfer agreements. Students who demonstrate proficiency in career tech courses in approved secondary programs may complete a verification form to receive college credit for their approved coursework. CTAG's are offered in Automotive Technology, Computer Networking/Information Technology, Culinary Arts, Engineering, Medical Assisting, Medical Technology, Media Arts, Teaching Professions, and Welding. The CTC programs awarding college credit through the CCP program include the Automotive Technology, Criminal Justice, Computer Networking/Information Technology, Construction Technology, Culinary Arts, Cybersecurity, Engineering, and Welding. Students in the programs awarding credit through the CCP will be required to sign a letter of intent to participate in the College Credit Plus program and apply for enrollment at the appropriate college or university. All CTAG and CCP classes are considered dual enrollment classes and will be documented on both the Whitmer High School and the college/university's transcripts. Any dual enrollment course a student fails or is withdrawn from will receive an "F" on the high school and college transcripts and the "F" will be computed into the high school and college GPA. If students do not receive a passing grade in any CTC dual enrollment course, the district will seek reimbursement for the amount of state funds paid to the college on the student's behalf for that college course. **All fees associated with the junior and senior level career technology programs are not able to be waived for any student.** All students in a career tech program are required to belong to a career tech student organization and pay yearly dues.



CAREER TECHNOLOGY ELECTIVES

Career Exploration

(CX01)

Credit: .5

Length: Semester period

Grade: 9

Prerequisite: None

Do you have any idea of what you are going to do next year or in the future? Are you career ready? If not, this is the class for you. Apply what you learn here to the goals you set and develop a plan. This course will introduce you to all of the exciting programs offered at the Whitmer Career and Technology Center. Visiting the programs will provide connections to the workplace as well as college and careers. Students will engage in career-related experiences by exploring skills in the various career tech programs. These experiences will help you make more meaningful and realistic career choices. **This course is the springboard for each of the career technology programs and is highly recommended for every freshman.**

Small Engine Repair

(CA20)

Credit: .5 credit per semester

Length: Year-long period

Grade: 9

Prerequisite: None

Fee: \$15

Students learn principles and skills to maintain and repair sports/recreational vehicles. Students will inspect, diagnose, and repair engine, drive train, and suspension systems. Students remove, disassemble, and repair components in engine cylinder head and block assemblies. Students inspect, adjust, and repair drivetrain systems including shaft and chain drive components. Additionally, students will inspect, adjust, and replace suspension components including shocks, seals, and springs. Students will maintain and adjust systems specific to specialized vehicles.

Automotive Maintenance

(CA11)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: None

Fee: \$30

This elective course is a practical approach for saving money and time by giving students the confidence to perform basic auto maintenance and repairs. This automotive course will teach students to perform basic tasks on their own, such as fixing flat tires, changing oil, replacing brakes, and other basic automotive maintenance procedures. Both classroom and lab time are used to provide the student with the knowledge needed to properly maintain their vehicle for the future.



ADVANCED MANUFACTURING

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Introduction to Advanced Manufacturing	Machine Tools Machining with Industrial Lathes CNC Technology	Industrial Robotics Manufacturing Capstone

Introduction to Advanced Manufacturing (CAM00)

Credit: .5 credit per semester Students will learn the production processes applied across manufacturing operations. Students will be able to demonstrate a broad array of technical skills with an emphasis given to quality practices, measurement, maintenance and safety. CTAG college credit is available for this course.

Length: Year-long period

Grade: 9-10

Prerequisite: None

Fee: \$30

Machine Tools (CAM10)

Credit: 1 This course introduces students to all aspects of machining applications in manufacturing. They will be able to perform routine calculations, interpret basic drawings, begin the process of performing accurate measurements, and be able to plan simple machining processes. Students will learn the fundamental principles and practices of cutting, drilling, and grinding using modern machine tools, hand tools, and precision measuring instruments.

Length: Year-long period

Grade: 11

Prerequisite: Acceptance into Advanced Manufacturing Program

Fee: \$100

Machining with Industrial Lathes (CAM11)

Credit: 1 This course directs the student in the safe use of different types of manual industrial lathes. Students will use these machine tools to shape, pattern, bore, thread, and polish metal and other materials. Students will apply their knowledge of product characteristics, perform necessary calculations, use precision measuring instruments, and make all adjustments needed to fabricate products to specified dimensions. Students will be able to identify operational problems and provide routine care and maintenance to the lathe.

Length: Year-long period

Grade: 11

Prerequisite: Acceptance into Advanced Manufacturing Program

CNC Technology (CAM12)

Credit: 1 In this course, students will use computer numerical control (CNC) programming to mill products comprised of various materials. Students will prepare numerical control programs in positioning systems. They will program computerized numerical control mills and lathes. CTAG college credit is available for this course.

Length: Year-long period

Grade: 11

Prerequisite: Acceptance into Advanced Manufacturing Program



Industrial Robotics

(CAM20)

Credit: 1

Length: Year-long period

Grade: 12

Prerequisite: Complete
Junior Advanced
Manufacturing Program

Fee: \$40

Students will apply the knowledge and skills necessary to program, safely operate, and troubleshoot industrial robots. Students will learn industrial robotic operations and system configurations. Students will code, compile, and debug programs using industrial robotic programming language. Instruction will include a wide range of classroom and laboratory experiences with an opportunity to earn college credit. These skills will prepare students for employment in entry-level positions in the machining and engineering technician fields with an emphasis on internships, apprenticeship, and early job placement.

Manufacturing Capstone

(CAM90)

Credit: 1

Length: Year-long period

Grade: 12

Prerequisite: Complete
Junior Advanced
Manufacturing Program

The capstone course provides opportunities for students to apply knowledge, attitudes, and skills that were learned in the Manufacturing program in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.



AUTOMOTIVE TECHNOLOGY

9 th Grade Electives	10 th Grade	11 th Grade	12 th Grade	11th - 12th Grade Elective
Career Exploration Small Engine Repair <i>see page 21</i>	Introduction to Automotive Technology	Automotive Braking, Suspension and Steering Ground Transportation/ HVAC Ground Transportation Maintenance	Ground Transportation Engine and Powertrain Honors Auto Electrical /Electronics Honors Automotive Engine Performance Honors Professional Literacy <i>See English section for more information</i>	Automotive Maintenance <i>see page 21</i>

Introduction to Automotive Technology (CA00)

Credit: 1
Length: Year-long period
Grade: 9-10
Prerequisite: None
Fee: \$12

Students will learn the basics of automotive service and explore careers in the transportation industry. This course will give students the confidence to perform basic auto maintenance and repairs on their vehicles in the future. This automotive course will expose students to the real world shop environment allowing students to evaluate their skills and interest for a career in the automotive repair industry. Students will have the opportunity to use and operate the machines and tools related to the industry.

Automotive Braking, Suspension, and Steering (Caut003)

Credit: 2
Length: 2 Semester blocks
Grade: 11
Prerequisite: Acceptance into Automotive Technology Program
Fee: \$65

Students will perform inspections, troubleshoot malfunctions, and service automotive undercarriage systems. Students will identify poor performing hydraulic brake systems and replace malfunctioning components. Students will install coil and leaf springs, shock absorbers and struts, and replace wheel bearings. Students will inspect and replace automotive steering components and perform wheel alignments. Additionally, students will disable and enable supplemental restraint systems (SRS) and replace antilock brake systems components.

Ground Transportation Maintenance (Caut11)

Credit: 1
Length: Semester block
Grade: 11
Prerequisite: Acceptance into Automotive Technology Program

Students will apply skills needed to inspect and perform general service on vehicles. Students will research applicable service information and technical service bulletins, and perform maintenance on vehicles. Students will inspect and service engine, drivetrain, suspension, steering, electrical, and braking systems. Students will perform ignition maintenance including spark plug/glow plug and ignition wire and coil pack replacement. Additionally, students will change fluids, filters, and inspect vehicles for leaks and fluid condition.



Ground Transportation/HVAC

(Caut12)

Credit: 1

Length: Semester block

Grade: 11

Prerequisite: Acceptance into Automotive Technology Program

Students will learn principles of heating, ventilation, and air conditioning systems (HVAC) for use in motor vehicles. They will also inspect, diagnose, repair, and maintain vehicle air conditioning and heating systems. Students will use service equipment to evacuate, store, and charge the air conditioning system. An emphasis will be given to the safe handling of refrigerants following EPA regulations.

Auto Electrical/Electronics Honors

(Caut02H & Caut02)

Credit: 2

Length: Year-long block

Grade: 12

Prerequisite: Junior Automotive Technology Program

Fee: \$65

Students will diagnose and repair vehicle electrical systems, including chassis electrical, charging, starting, and lighting systems. Students will learn the fundamentals of direct current (DC) electronics including series, parallel, and series-parallel circuits. Students will use electronic diagnostic tools, read schematics, and utilize printed and electronic repair manuals to troubleshoot electrical circuits, test components, and replace defective modules. Seniors in this program must also enroll in Technical Literacy. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 3 college credit hours which equals 1 high school credit.

Automotive Engine Performance Honors

(Caut006)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior Automotive Technology Program

Students will perform inspections, troubleshoot malfunctions, and service truck undercarriage systems. Students will identify poor performing air brake systems and replace malfunctioning components. Students will install leaf springs, shock absorbers, and air suspension components. Students will inspect and replace truck steering components and replace wheel bearings. Additionally, students will perform wheel alignment and tire inspections, diagnostics, and repair. Identifying workplace risk factors associated with repetitive motion and lifting, operating, and moving of a heavy object is emphasized. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 3 college credit hours which equals 1 high school credit.

Ground Transportation Engine and Powertrain Honors

(Caut21H)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior Automotive Technology Program

Students will inspect, adjust, and repair internal combustion engines and drivetrain. Topics include physical and mechanical principles of engines, transmissions and transaxles, differentials, and cooling systems. Students will learn precision measurement, inspection, and reconditioning techniques. Students will also identify the customer's needs, determine labor rates, and create estimates. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 2 college credit hours which equals .67 high school credit.



CAREER BASED INTERVENTION

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Links 9	Career Links 10	Career Based Intervention	Career Based Intervention

Career Links 9 (CI11)

Credit: .5
Length: Semester period
Grade: 9
Prerequisite:
 Teacher/counselor recommendation only

Freshmen will learn the skills they need to be successful throughout their academic career as well as establishing postsecondary goals. Students will study topics such as stress management, organization, setting SMART goals, technology applications, health and wellness, and an introduction to economics. Students will work with their teacher and counselor to utilize the Ohio Means Jobs website. Students will use the Ohio Means Jobs resources and activities to start a career pathway, ensuring they will be on track for graduation.

Career Links 10 (CI21)

Credit: .5
Length: Semester period
Grade: 10
Prerequisite:
 Teacher/counselor recommendation only

Sophomores will build upon skills in order to be successful in school and in their future careers. Students will study topics such as economics, financial literacy, and entrepreneur skills, as well as exploring post-secondary options. During Career Links B, students will learn skills that will help them to be successful in the workplace. Students will continue to work with their teacher and counselor utilizing the Ohio Means Jobs website and the Ohio Means Jobs resources, ensuring that they will be on track for graduation and for future goals.

Career Based Intervention s1 and s2 (CI1C & CI1D)

Credit: 2 credits each semester
Length: 2 blocks per semester
Grade: 11 - 12
Prerequisite: Teacher recommendation and application

Whitmer High School provides a Career Based Intervention (CBI) program for students who are behind in credits. Working with teachers, employers, parents, and counselors, students learn to become productive workers and earn credits toward graduation. Applications for this program are available by contacting the student's school counselor.



COMPUTER NETWORKING/INFORMATION TECHNOLOGY

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Introduction to Computers and Networking	Network Operating Systems A Network Operating Systems B Honors Computer Hardware Computer Software-Honors	Networking-Honors Network Management-Honors Network Security-Honors Routing and Switching Cybersecurity A Cybersecurity B Professional Literacy <i>see English section for more information</i>

Introduction to Computers and Networking (CN00)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-10
Prerequisite: None
Fee: \$7

This class is a hands-on, project-based course exploring the world of basic computers and telecommunications. Students will participate in activities to gain knowledge and experience into the computer industry utilizing the latest computer hardware, software, and networking equipment. Students can use their exploratory knowledge to begin in the computer IT industry.

Computer Hardware (Cnet025)

Credit: 1
Length: Semester block
Grade: 11
Prerequisite: Acceptance into Computer Networking Program
Fee: \$20

Students will learn to install, repair, and troubleshoot computer hardware systems. They will perform preventative maintenance practices and learn techniques for maintaining computer hardware security. Communication skills and professionalism in troubleshooting situations will be emphasized. The curriculum will prepare you to pass the CompTIAA+ certification exam. You will have the technical skills and knowledge to enter the workforce of IT professionals and/or continue your education at a 2 or 4-year college or university.

Computer Software-Honors (Cnet13H)

Credit: 1
Length: Semester block
Grade: 11
Prerequisite: Acceptance into Computer Networking Program.

Students will apply knowledge and skills of operating systems in portable, stand alone, and networked devices. Students will install a variety of operating systems manually and using remote assistance. They will learn to configure, modify, and troubleshoot operating systems. The curriculum will prepare you to pass the CompTIAA+ certification exam. Honors quality points and college credit is earned for successful completion of this course. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 2 college credit hours which equals .67 high school credit.



Network Operating Systems A and Network Operating Systems B - Honors (Cnet11 & Cnet12H)

Credit: 2
Length: Year-long block
Grade: 11
Prerequisite: Acceptance into Computer Networking Program

Students will apply knowledge and skills of Cisco network operating systems on a variety of networking devices. Students will install a variety of network operating systems manually and using remote assistance. They will learn to configure, modify, and troubleshoot network operating systems. The curriculum will prepare you to pass the Cisco CCENT and CCNA certification exams. Honors quality points and college credit is earned for successful completion of the second semester of this course. Qualified students may elect to enroll in College Credit Plus for the **Network Operating Systems B** course. Students will earn 2 college credit hours which equals .67 high school credit.

Networking-Honors (Cnet21H)

Credit: 1
Length: Semester block
Grade: 12
Prerequisite: Junior Computer Networking Program
Fee: \$20

Students will learn the basics of Network Security. Topics will include routers, switches, IPv4, IPv6, RIP, EIGRP, OSPF, IGRP, VLANs, Trunking, etc. This is the foundation to designing and setting up a network. This curriculum will prepare you for the CCENT/CCNA. This is vital knowledge in today's cyber world and key concept of hiring requirements in the current workforce. Honors quality points and college credit is earned for successful completion of this course. Seniors in this program must also enroll in Technical Literacy. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 2 college credit hours which equals .67 high school credit.

Network Management-Honors (Cnet22H)

Credit: 1
Length: Semester block
Grade: 12
Prerequisite: Junior Computer Networking Program

Students will learn Network Management techniques. Controlling and managing network systems is vital to having a high performance network. This curriculum will prepare you for the CCENT/CCNA. Honors quality points will be awarded for this course and college credit is earned for successful completion of this course. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 2 college credit hours which equals .67 high school credit.

Network Security-Honors (Cnet23H)

Credit: 1
Length: Semester block
Grade: 12
Prerequisite: Junior Computer Networking Program

Students will learn the basics of implementing Network Security. Topics will include security policies, security appliances, account administration, access control lists, network security training, patch management, and risk based vulnerabilities. This curriculum will prepare you for the CCENT/CCNA. This is vital knowledge in today's cyber world and key concept of hiring requirements in the current workforce. Honors quality points and college credit is earned for successful completion of this course. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 3 college credit hours which equals 1 high school credit.



Routing and Switching

(Cnet055)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior
Computer Networking
Program

Students will learn in-depth about network routing and switching. This topic contains the core in depth knowledge required to design, implement, scale, and repair network systems in today's cyber society.

Cybersecurity A and Cybersecurity B

(Ccyb10 & Ccyb10B)

Credit: 2

Length: Year-long block

Grade: 12

Prerequisite: Suggested
Business Department courses:
Computer Applications 1 & 2,
Coding

Students will learn the components of cybersecurity and the role each plays in preventing, detecting, and lessening the chance of cyber-attacks. Students will learn how to secure, prevent and detect attacks in a network infrastructure. Throughout this course, students will examine and implement security safeguards for desktop, network, and application security. They will apply the knowledge of disaster recovery and business stability. Students who successfully complete this program will have the opportunity to sit for the Cisco Certified Network Associate Security Certification testing.



CONSTRUCTION TECHNOLOGY

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Introduction to Construction	Remodeling and Renovation Structural Coverings and Finishes	Construction Management Structural Systems A-Honors and Structural Systems B-Honors Professional Literacy <i>see English section for more information</i>

Introduction to Construction (CC15)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-10
Prerequisite: None
Fee: \$30

This course is designed to introduce the student to various trades and disciplines associated with the construction field. Students will design and build a 4'X8' house from the ground up. Course work will consist of hands-on experiences in design, site planning, scaled drawing, surveying, wall framing, masonry, electrical, and roof systems. The students will be instructed in the safe and efficient use of various hand and power tools throughout the building process.

Structural Coverings and Finishes (Ccon11)

Credit: 2
Length: Year-long block
Grade: 11
Prerequisite: Acceptance into the Construction Technology Program
Fee: \$180

This course will address applications of interior and exterior finish work. Students will identify material properties and select for appropriate application. Students will install thermal and moisture protection including roofing, siding, fascia and soffits, gutters, and louvers. Students will install drywall, trim-joinery, and molding and apply wall, floor, ceiling coverings, and finishes. Throughout the course, the safe handling of materials, personal safety, prevention of accidents, and the mitigation of hazards are emphasized.

Remodeling and Renovation (Ccon12)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11
Prerequisite: Acceptance into the Construction Technology Program

Construction is more than just swinging a hammer; it is a career with opportunities for advancement in every trade, for every passion. Students will learn safe jobsite practices, blueprint drafting and reading, and basics in building codes. Students will also develop skills in structural framing, home building, and remodeling using the tools of the trade. For safety reasons, students will be required to purchase safety-toed work boots.



Structural Systems Honors A and B

(Ccon22H & Ccon23H)

Credit: 1 credit per semester

Length: 2 Semester blocks

Grade: 12

Prerequisite: Junior
Construction Technology
Program

Fee: \$30

Students will learn procedures and techniques required for layout and framing of walls and ceilings, including roughing-in door and window openings, constructing corners and partitions, bracing walls and ceilings, and applying sheathing. Students will learn methods of roofing, cold formed steel, and wood stair framing. Site and personal safety, material properties, design procedures, and code requirements for structural systems will also be taught. Honors quality points and college credit will be awarded for each block of this course after successful completion each semester. Qualified students may elect to enroll in College Credit Plus for the **Structural Systems A** course. Students will earn 2 college credit hours which equals .67 high school credits. Qualified students may elect to enroll in College Credit Plus for the **Structural Systems B** course. Students will earn 3 college credit hours which equals 1 high school credits.

Construction Management

(Ccon21)

Credit: .5 credit per semester

Length: Year-long period

Grade: 12

Prerequisite: Junior
Construction Technology
Program

Construction students will receive advanced hands-on training to prepare them to enter the construction industry workforce. Off-site building projects offer actual on-the-job experience in order to gain deeper knowledge and skill in advanced techniques through the use of power tools and equipment. Certification in forklift operation and 10-hour OSHA training is provided. Students may qualify for the opportunity to participate in the School-to-Work option during the second semester, which allows students to be released from school to work for local contractors. Seniors in this program must also enroll in Technical Literacy.



COSMETOLOGY

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Introduction to Cosmetology	Microbiology/Infection Control Trichology Fundamentals of Chemical Services Hand & Foot Treatment	Advanced Hair Cutting & Styling Advanced Chemical Services Salon Operations Skin Care Fundamentals Human Services Capstone

Introduction to Cosmetology (CZ03)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-10
Prerequisite: None
Fee: \$15

This course will enable students to investigate careers in the human services career cluster including cosmetology, barber, and personal care services. This program offers an overview of professional image expectations, community service, and personal career pathways. Students will learn basic shampooing, conditioning, and haircutting including trimming, wet styling, and thermal styling techniques on mannequins. Students will also learn infection control and safety.

Microbiology/Infection Control (Cos115)

Credit: 1
Length: Semester block
Grade: 11
Prerequisite: Acceptance into Cosmetology Program
Fee: \$216

Students will learn basic bacteriology, infection control, and salon safety practices. Students will be able to recognize infectious disorders and contagious diseases, learn the dispensary requirements, product storage, and requirements of the laws and rules, which regulate the cosmetology industry in Ohio.

Trichology (Cos120)

Credit: 1
Length: Semester block
Grade: 11
Prerequisite: Acceptance into Cosmetology Program

Students will learn the anatomy of the head and scalp, structure of the hair, and various techniques and procedures for analyzing hair, scalp disorders, and diseases. Students will be able to determine hair porosity, elasticity, density, texture, and growth patterns, as well as conduct chemical tests for treated hair and ability to recommend corrective scalp treatment.



Fundamentals of Chemical Services

(Cos135)

Credit: 1

Length: Semester block

Grade: 11

Prerequisite: Acceptance into Cosmetology Program

Students will apply basic skills, knowledge, and safety practices when giving permanent/chemical waves, curl re-forming, chemical relaxers, and hair color techniques to include tinting, highlighting, bleaching, and foiling.

Hand & Foot Treatment

(Cos145)

Credit: 1

Length: Semester block

Grade: 11

Prerequisite: Acceptance into Cosmetology Program

Students will learn the knowledge and skills to perform both manicures and pedicures. They will learn how to maintain personal hygiene and infection control. Students will give plain/oil manicures, pedicures, and hand/arm & foot/leg massages. Enhanced hand and foot treatments using specialized products and techniques will be performed.

Advanced Hair Cutting & Styling

(Cos130)

Credit: 1 credit per semester

Length: 2 Semester blocks

Grade: 12

Prerequisite: Junior Cosmetology Program

Fee: \$120

Students will learn advanced cutting and formal styling using specialized equipment and techniques. This course offers enhanced training in current trends and razor techniques.

Advanced Chemical Services

(Cos140)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior Cosmetology Program

Students will learn advanced chemical services using specialized products and techniques. Students will do advanced coloring, dimensional coloring, corrective techniques, texturizing, and advanced chemical wave wrapping techniques.

Skin Care Fundamentals

(Cos150)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior Cosmetology Program

Students will apply the principles of anatomy, skin analysis, infection control and safety for safe hair removal, skincare treatments, and facial massage. Students will use electrical and manipulative facial treatments including masks, packs, and make-up techniques. Students will also learn advanced skin care treatments, targeted massage, and enhancement applications using specialized products and techniques.



Salon Operations

(Cos155)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior
Cosmetology Program

In this course students will learn the fundamentals of managing a cosmetology salon. Students will learn about employment and customer liability, insurance, leases, record keeping, communication, and sales.

Human Services Capstone

(Cos010)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior
Cosmetology Program

This course provides opportunities for students to apply knowledge and skills in a more complete and realistic manner. This includes project/problem based learning opportunities. Students may combine classroom learning with work experience including internships and a Senior Project.

Students who successfully complete the Cosmetology program have the opportunity to earn 15 credits via articulation through Owens Community College.



CRIMINAL JUSTICE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Introduction to Criminal Justice	Policing and Public Safety The Correctional System and Services Criminal Justice-Honors	Criminal Investigation Homeland Security Criminal Justice Capstone Cybersecurity <i>See page 29</i> Professional Literacy <i>see English section for more information</i>

Introduction to Criminal Justice (Ccrm01)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-10
Prerequisite: None
Fee: \$5

This course is an introduction to the Criminal Justice pathway and traces the history, organization, and functions of local, state, and federal law enforcement. Students will study criminal behavior and apply constitutional and criminal law to crime and punishment. Students will learn law enforcement terminology, classifications and elements of crime, and how various court systems are used to judge and punish offenders.

Policing and Public Safety (CJ10)

Credit: 2
Length: Year-long block
Grade: 11
Prerequisite: Acceptance into Criminal Justice Program
Fee: \$120

In this course, students will learn the skills necessary to prevent, detect, and react to crime. Students will learn self-defense and subject control techniques, methods to conduct patrols, surveillance, and traffic procedures. Students will understand the ethical and legal responsibilities of police officers on patrol. Additionally, students will learn the operations of police and emergency telecommunication systems.

Criminal Justice Honors (CJ11H)

Credit: 1
Length: Semester block
Grade: 11
Prerequisite: Acceptance into Criminal Justice Program
Fee: \$5

Students will study the history, organization, and functions of law enforcement. Additionally, students will also learn about criminal behavior and constitutional and criminal law. Students will also learn terminology, classifications and elements of crime, and how various court systems work. Honors quality points and college credit will be awarded for successful completion of this course. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 3 college credit hours which equals 1 high school credit.



Correctional System and Services

(CJ12)

Credit: 1

Length: Semester block

Grade: 11

Prerequisite: Acceptance into Criminal Justice Program

Fee: \$5

The correctional officer plays a critical role in the criminal justice system. In this course students will learn institutional rehabilitation and community corrections strategies that prepare them for work in a correctional setting. The student will learn the role and responsibilities of a correctional officer including processing inmates, maintaining security in a correctional setting, and understanding inmate mental health needs.

Criminal Investigation

(CRM1)

Credit: 1 credit per semester

Length: Year-long block

Grade: 12

Prerequisite: Junior Criminal Justice Program

Fee: \$80

Forensic science uses a structured and scientific approach to the investigation of crimes including assault, abuse and neglect, domestic violence, accidental death, and homicide. Students will learn the psychology of criminal behavior and apply it to investigative procedures. Students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis.

Homeland Security

(CRM3)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior Criminal Justice Program

Fee: \$20

In Homeland Security, students will learn techniques to secure and protect America's people and infrastructure from natural and manmade disasters. Students will look at a range of issues including cyber security, intelligence gathering, and local emergency planning that can be applied in their own community. Students will also learn to manage critical incidents through training in National Incident Management and the Incident Command Systems. Students will complete multiple FEMA certifications in this course.

Criminal Justice Capstone

(CRM4)

Credit: 1

Length: Semester Block

Grade: 12

Prerequisite: Junior Criminal Justice Program

Fee: \$5

The course provides opportunities for students to apply knowledge, attitudes, and skills that were learned in Policing and Public Safety in a more comprehensive and authentic way. Capstones often include project and problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. Seniors in this program must also be enrolled Technical Literacy.



CULINARY

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Introduction to Culinary Arts	Contemporary Cuisine Dining Room Service & Operations Fundamentals of Food Production Honors	Restaurant Management Baking & Pastry Professional Literacy <i>see English section for more information</i>

Introduction to Culinary Arts (CU00)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-10
Prerequisite: None
Fees: \$15

This first course in the career field will introduce students to culinary arts, food service operations, lodging, travel, and tourism. Students will obtain knowledge of customer service principles and examine the impact of cultural, historical, social, and technological developments on key segments of the industry. They will also apply safety and sanitation techniques to prevent and control injuries, illnesses, and diseases in the workplace. Business law, employability skills, leadership, and communications will be addressed.

Contemporary Cuisine (Cul120)

Credit: 1
Length: Semester block
Grade: 11
Prerequisite: Acceptance into Culinary Arts Program
Fee: \$50

Students will prepare regional and international food products and beverages according to standardized recipes. They will research and develop marketable new recipes, plan and design menus, and calculate food requirements and costs. Selection, use, maintenance, and storage of commercial equipment, machines, tools, and tableware will be emphasized. Food science, inventory management, food presentation, and safety and sanitation will also be addressed.

Fundamentals of Food Production Honors (Cul100A & Cul100BH)

Credit: 2
Length: Year-long block
Grade: 11
Prerequisite: Acceptance into Culinary Arts Program

Students will prepare food products and beverages according to standardized recipes. They will apply plating and presentation principles to deliver attractive menu items, establish food specifications, prep lists, and develop ingredient and portion control guides. Safety and sanitation, standard knife skills, and culinary math will be emphasized. Employability skills, leadership, and communications will also be incorporated.



Dining Room Service & Operations

(Cul110)

Credit: 1

Length: 1 Semester block

Grade: 11

Prerequisite: Acceptance into Culinary Arts Program

Students will apply strategies and techniques to identify and meet dining guest needs. They will provide table and beverage service, maintain eating areas, meeting spaces, serving stations, manage online reservations, and orders, and monitor table turns, wait lines, and table assignments. Nutritional analysis, types of table service, safety and sanitation, cultural intelligence, employability skills, and communications will also be addressed.

Restaurant Management

(Cul23)

Credit: 1

Length: Semester block

Grade: 12

Students will apply management principles to plan, organize, and direct restaurant staff toward goal achievement. They will hire, train, and supervise employees, establish processes to facilitate restaurant operations, and plan and design menus. Students will also forecast and schedule food production, establish food specifications, select vendors, calculate costs, and purchase food and nonfood products. Other topics include food science, nutritional analysis, business law and ethics, economics, and marketing. Seniors in the Culinary 2 program must also be enrolled in Technical Literacy. CTAG college credit available.

Baking & Pastry

(Cul22)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior Culinary Arts Program

Students will apply food-science principles to prepare and bake breads, desserts, and pastries. They will also use specialized decorating and presentation techniques to decorate cakes, cookies, pastries, and other baked goods. Students will select quality ingredients, determine food costs, and research and develop marketable new recipes and food concepts. Personal safety, food safety, and equipment safety will be emphasized.



DIGITAL GRAPHIC DESIGN

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Introduction to Digital Graphic Design	Digital Image Editing Honors Visual Creation	Digital Graphic Design Portfolio-Honors Digital Graphic Design Capstone-Honors Professional Literacy <i>see English section for more information</i>

Introduction to Digital Graphic Design (CD00)

Credit: .5 credit per semester

Length: Year-long period

Grade: 9-10

Prerequisite: None

Fee: \$25

The imagination and creativity of graphic designers inspire and influence us on a daily basis. Graphic designers create signage, video games, mobile apps, websites, illustrations, and advertising campaigns. In this Arts and Communication course, students will be introduced to the design process, brainstorming techniques, the fundamentals of design, and the Adobe Creative Cloud software suite.

Digital Image Editing Honors (Cdgd120H)

Credits: 2

Length: Year-long block

Grade: 11

Prerequisite: Introduction to Digital Graphic Design recommended

Fee: \$35

Students in this class will continue to develop the design and technology skills that were taught in the Introduction to Graphic Design course. Students will use Adobe Creative Cloud (Illustrator, Photoshop and In-Design) to create original illustrations, posters, and logo designs for commercial applications. This class will also introduce students to basic business concepts and professional design careers. Students are required to belong to Business Professionals of America. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 3 college credit hours which equals 1 high school credit.

Visual Creation (Cdgd315)

Credit: 2

Length: Year-long block

Grade: 11

Prerequisite: Introduction to Digital Graphic Design recommended

Students in this class will continue to develop the design and technology skills that were taught in the Introduction to Graphic Design course. The assignments in this class will focus on creating interactive designs for televisions, computers, mobile devices, and game consoles (motion graphics). Students will collaborate on assignments and experiment with advanced Creative Cloud software. This class will also introduce students to basic marketing concepts and professional design careers. Students are required to belong to Business Professionals of America.



Digital Graphic Design Portfolio-Honors

(Cdgd21H)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior Digital
Graphic Design Program

Fee: \$35

This course will emphasize the professional standards and expectations of the design industry and help students develop the problem solving and technical skills needed to meet those expectations. Students will work on client-based design problems and develop a portfolio of their work to submit for college admission. All students are required to belong to Business Professionals of America. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 1 college credit hours which equals .33 high school credit.

Digital Graphic Design Capstone-Honors

(Cdg90H)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior Digital
Graphic Design Program

Every student will initiate and complete a senior project with a professional mentor. Senior projects are project/problem-based learning opportunities that are completed both in the classroom and the community. Depending on the topic selected by the student, senior projects might also involve employment or internship opportunities for students. All students must also enroll in Technical Literacy. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 3 college credit hours which equals 1 high school credit.



ENGINEERING

9 th or 10 th Grade	10 th Grade	11 th Grade	12 th Grade
Introduction to Engineering Design	Principles of Engineering	Civil Engineering and Architecture-Honors Digital Electronics	Engineering Design and Development s1 & Engineering Design and Development s2

Introduction to Engineering Design (CE00)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-10
Prerequisite: Application and teacher recommendation
Fee: \$15

This is the first course in this four-year engineering program. Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

Principles of Engineering (CE10)

Credit: .5 credit per semester
Length: Year-long period
Grade: 10
Prerequisite: "C" or better in Introduction to Engineering Design (recommended)
Fee: \$15

This is the second course in this four-year engineering program. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

Civil Engineering and Architecture-Honors (CE11H)

Credit: 1
Length: Year-long period
Grade: 11
Prerequisite: Acceptance into Engineering Program
Fee: \$15

Important aspects of building, site design, and development will be covered in the course. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software. Honors quality points and college credit will be awarded for successful completion of this course. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 3 college credit hours which equals 1 high school credit.



Digital Electronics

(CE21)

Credit: 1

Length: Year-long period

Grade: 11

Prerequisite: Acceptance into Engineering CTC Program

Fee: \$15

From smart phones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in the industry, including logic gates, integrated circuits, and programmable logic devices.

Engineering Design and Development s1 & Engineering Design and Development s2

(CE1C & CE1D must enroll in both courses)

Credit: 1 credit per semester

Length: Year-long block

Grade: 12

Prerequisite: Prior Engineering courses

Fee: \$50

The knowledge and skills students acquire throughout Project Lead the Way, Engineering come together in this course as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards. By completing the engineering program, students are ready to take on any post-secondary program or career.



MARKETING

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Introduction to Marketing	Marketing Principles Marketing Research	Professional & Technical Sales Supply Chain Management

Introduction to Marketing (CMK101XA & CMK101XB)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-10
Prerequisite: None
Fee: \$7

This is the first course for the Business and Administrative Services, Finance, and Marketing career fields. It introduces students to specializations within the three career fields. Students will obtain knowledge and skills in fundamental business activities. They will acquire knowledge of business processes, economics, and business relationships. Students will use technology to synthesize and share business information. Employability skills, leadership, communications, and personal financial literacy will be addressed.

Marketing Principles (CMK111)

Credit: 1
Length: Year-long period
Grade: 11
Prerequisite: none
Fee: \$10

This course introduces students to the specializations offered in Marketing. Students will obtain fundamental knowledge and skills in marketing communications, marketing management, marketing research, merchandising, and professional selling. They will acquire knowledge of marketing strategies, market identification techniques, employability skills, business ethics and law, economic principles, and international business. Technology, leadership, and communications will be incorporated in classroom activities. Marketing Education Students are also members in the Career Tech Student Organization, DECA. DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management in high schools and colleges around the globe. DECA integrates into classroom instruction, applies learning, connects to business, and promotes competition. Students will participate in a student run ATM banking through a local credit union on the Whitmer/CTC campus.

Marketing Research (CMK112)

Credit: 1
Length: Year-long period
Grade: 11
Prerequisite: none

Students will conduct qualitative and quantitative marketing research using primary and secondary data. They will gather, synthesize, evaluate, and disseminate marketing information for use in business decision-making or to address a specific marketing problem or issue. Students will apply project management techniques to guide and control marketing research activities. They will use statistical techniques to evaluate marketing data. Technology, employability skills, leadership, and communications will be incorporated in classroom activities. CTAG college credit is available for this course.



Professional & Technical Sales

(CMK121)

Credit: 1

Length: Year-long period

Grade: 12

Prerequisite: none

Fee: \$12

In this course, students will demonstrate sales processes and techniques used in a business-to-business environment. They will develop, grow, and maintain positive business relationships. Students will monitor trends in the business environment to determine the impact on their sales, customers, and competitors. They will negotiate and adjust prices and sales terms. Students will manage sales activities and territories. Technology, employability skills, leadership, and communications will be incorporated in classroom activities. CTAG college credit is available for this course.

Supply Chain Management

(CMK122)

Credit: 1

Length: Year-long period

Grade: 12

Prerequisite: none

Students will determine how to facilitate the flow of goods from the point of origin to the point of consumption. Students will utilize technology to track supply chains and measure their effectiveness and efficiency. They also will identify opportunities to improve service levels, quality, and costs through supply chains and select strategies for improving customer and supplier relationships. International business, business process analysis, project management, internal controls, and compliance will be emphasized. CTAG college credit is available for this course.



MEDIA ARTS

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Introduction to Media Arts	Video Broadcasting Motion Graphics	Broadcast Journalism Advanced Studio Production

Introduction to Media Arts (CV00)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-10
Prerequisite: None
Fee: \$15

If you have an artistic and creative mind and have a flair for visual detail, then this introduction course may be for you. This course will assist you in understanding the basics of how to deliver messages through journalism. You will be introduced to the latest technology and design applications. Students will have use of the program's audio/video studio, WTMR, which is fully equipped with a sound recording booth and green screen. Typical course topics include composing, capturing, processing and programming of media arts products. Students will explore various styles of media arts such as stop motion, hyper lapse, video stories, mini documentaries and more. Students will learn film editing on Adobe Premiere Pro software.

Video Broadcasting (CV11)

Credit: 1
Length: Semester block
Grade: 11
Prerequisite: Acceptance into the Media Arts Program
Fee: \$15

This course exposes students to the materials, processes, and artistic techniques involved in creating video productions. Students learn about the operation of the camera, lighting techniques, camera angles, depth of field, composition, storyboarding, sound capture, and editing techniques. Course topics may include production values and various forms/styles of video production (e.g., documentary, storytelling, news broadcasts, etc.). As students advance, they are encouraged to develop their own artistic styles. Students may study the work of major cinematographers and video artists.

Motion Graphics (CV12)

Credit: 1
Length: Semester block
Grade: 11
Prerequisite: Acceptance into the Media Arts Program
Fee: \$15

This course exposes students to creative and conceptual aspects of designing and producing animated images for a variety of storytelling and multimedia presentations. This includes dramatic narratives, artistic and experimental presentations and/or installations, ambient interactive, immersive, and performance media. Students will develop creative and artistic talents using professional equipment and media.



Broadcast Journalism

(CV21)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior Media Arts Program

Fee: \$15

Sound is essential to broadcast journalism and advertising. Students compare and contrast how sound alone and sound combined with visuals can entertain, inform, and initiate action. They generate content, record, edit, mix, and produce voice and music for airwaves, podcast, and/or Internet. They adapt for analog and digital audio while adhering to Federal Communication Commission rules and regulations related to bandwidth and advertising. Career opportunities in Media Arts are explored.

Advanced Studio Production

(CV22)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior Media Arts Program

Fee: \$15

Inspiration, technique, and trends are the focus of this single-camera, cinema-style course. Students engage in creative storytelling through concept development, scriptwriting, and storyboarding/shot listing. They learn to achieve the look of film through lighting and camera technique as well as double-system audio capture. Legal and ethical aspects such as copyright and fair use guidelines are learned as well as students explore career related opportunities in Digital Cinema field.



MEDICAL ACADEMY

MEDICAL TECHNOLOGY

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Exploring the World of Healthcare	Medical Technology I Patient Care Medical Terminology- Honors Anatomy & Physiology for CTC <i>see Science Section for more information</i>	Medical Technology II Health and Wellness Medical Technology II Health Science Capstone Patient Technician Skills Chemistry <i>see Science Section for more information</i>

MEDICAL ASSISTING SKILLS

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Exploring the World of Healthcare	Medical Assisting Skills I Medical Terminology- Honors Anatomy & Physiology for CTC <i>see Science Section for more information</i>	Medical Assisting Skills II Patient Technician Skills Chemistry <i>see Science Section for more information</i>

EMERGENCY MEDICAL TECHNICIAN (Senior Only Program)

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Exploring the World of Healthcare (recommended)		Emergency Medical Technician & Emergency Medical Technician Honors Medical Terminology-Honors (recommended) Anatomy & Physiology for CTC (recommended) <i>see Science Section for more information</i>



Exploring the World of Healthcare

(CM00)

Credit: .5 credit per semester
Length: Year-long period
Grade: 10
Prerequisite: None
Fee: \$10

This introductory class allows students to discover and prepare for careers in healthcare while learning about the history of medicine and medical ethics. Start your career by decoding medical abbreviations and reviewing basic body systems. Investigate career paths that fit your personality and interests.

Medical Technology I – Patient Care

(CMP1)

Credit: 2
Length: Year-long block
Grade: 11
Prerequisite: Acceptance into Medical Technology Program
Fee: \$50

Master basic medical skills, such as taking vital signs, using medical equipment, and assisting with activities of daily living. Students meeting criteria will be eligible to sit for the State Tested Nurse Assistant (STNA) certification examination. Students accepted into Medical Technology I will also need to sign up for the Medical Terminology Honors and Anatomy & Physiology for CTC courses.

Medical Assisting Skills I

(CM11)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11
Prerequisite: Acceptance into Medical Assisting Program
Fee: \$25

Students will learn procedures used in medical offices, including working with surgical instruments, collecting specimens for testing, and performing basic lab procedures. Students will attain skills in performing vital signs and health screenings. Medical records, coding, and other medical documents will be explored.

Medical Terminology-Honors

(CM10H)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11
Prerequisite: Acceptance into Medical Technology, Medical Assisting Skills, or Emergency Medical Technician Programs
Fee: \$20

Speak the language of medicine by learning word elements and abbreviations used in patient charts. Students will decipher case studies, document medical information, and acquire the know-how to speak with other medical professionals. Honors quality points will be awarded and college credit is earned for successful completion of this course. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 3 college credit hours which equals 1 high school credit.



Medical Technology II Health and Wellness

(Cmed21)

Credit: .5 credit per semester

Length: Year-long period

Grade: 12

Prerequisite: Junior Medical Technology Program

Fee: \$18

Students will engage in the study of medical ethics, professional conduct, and practice while attending clinical rotations at local healthcare agencies and observing cutting edge medical care in the real world. Students will learn physical assessment techniques and discuss disease pathology and treatments. Medical Academy seniors who obtain a job in healthcare have the option to participate in the School to Work program.

Medical Technology Health Science Capstone

(Cmed90)

Credit: .5 credit per semester

Length: Year-long period

Grade: 12

Prerequisite: Junior Medical Technology Program

The capstone course provides opportunities for students to apply knowledge, critical thinking, research, and skills they have learned in the Medical Technology 1 course. Capstones include project/problem-based learning opportunities. This course can be delivered through a variety of delivery methods including the Senior Project, classroom instruction including medical ethics, or professional conduct and practice. Under the supervision of the school and through community partnerships, students will combine classroom learning with internships at area health facilities with clinical rotations and observe cutting edge medical care in the real world.

Medical Assisting Skills II

(CM21)

Credit: 1 credit per semester

Length: Year-long block

Grade: 12

Prerequisite: Junior Medical Assisting Program

Fee: \$25

You will participate in clinical observations at healthcare facilities in your area of interest and learn to prep and perform medical outpatient procedures and screenings. Medical ethics, marketing/educational material design, and wellness activities will be incorporated. Students will prepare for one of the fastest growing medical careers. Medical Academy seniors who obtain a job in healthcare have the option to participate in the School to Work program. In addition, students who successfully complete curriculum will qualify to take an industry credential certification exam during their senior year.

Patient Technician Skills

(CM30)

Credit: .5 credit per semester

Length: Year-long period

Grade: 12

Prerequisite: Junior Medical Technology or Junior Medical Assisting Programs

Fee: \$20

You will gain extra skills to prepare for employment in a hospital or clinic. You will also learn to evaluate infants and children by studying normal and abnormal development, review heart anatomy, begin to read EKGs, and delve into basic medical and dental office procedures and instruments.



Emergency Medical Technician & Emergency Medical Technician Honors (CME1 & CME2H)

Credit: 1 credit per semester

Length: Year-long block

Grade: 12

Prerequisite: Medical Terminology & Anatomy & Physiology suggested

Fee: \$30

You can learn how to save lives! If you enjoy meeting and helping people, can quickly assess and stay calm in intense situations, and like a variety of challenges, join the Emergency Medical Technician program. The EMT program is for students who want to pursue a career in the pre-hospital medical field as emergency medical technicians. Students will learn the knowledge and skills necessary to provide lifesaving care to patients in a fast-paced environment. You will assess, diagnose, and treat a variety of illnesses and injuries in the process of providing vital pre-hospital care. Students who successfully complete this program will have the opportunity to sit for the Ohio certification testing as an Emergency Medical Technician. Honors quality points will be awarded and college credit is earned for successful completion of this course. Qualified students may elect to enroll in College Credit Plus for the **Emergency Medical Technician Honors** course. Students will earn 5 college credit hours which equals 1 high school credit.



TEACHING PROFESSIONS

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Introduction to Teaching Professions	Effective Lesson Planning and Instruction	Classroom Management Educational Principles Honors Teaching Professions Capstone

Introduction to Teaching Professions (CT03)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-10
Prerequisite: None
Fee: \$10

This course is for students who are considering a career in education. Students will explore numerous careers in the education field, such as: elementary, junior high, high school and special education teacher, school counselor, and administrator. Students will have the opportunity to experience hands-on teacher tasks, design bulletin boards, create dynamic lesson plans, and work with new technology. By completing this course, students will have a greater understanding of opportunities available to them in the field of education.

Effective Lesson Planning & Instruction (Ctea11)

Credit: 2
Length: Year-long block
Grade: 11
Prerequisite: Acceptance into Teaching Professions Program
Fee: \$20

This course provides best practices in planning effective lesson plans for students of all grade levels. During this course, students will participate in dynamic hands-on activities that give a behind-the-scenes look at what teachers do to effectively teach their students. Students in this course will also participate in hands-on activities and exciting internships with teachers and students in the WLS district.

Classroom Management (Ctea21)

Credit: 1
Length: Year-long period
Grade: 12
Prerequisite: Junior Teaching Professions Program
Fee: \$43

This course provides best practices in classroom and behavior management - from organizing time, materials, and classroom space to strategies that teachers use in their classroom to manage student behaviors. You will create an exciting classroom environment to maximize the learning potential of students. Students in this course will also participate in hands-on activities and exciting internships with teachers and students in the WLS district.



Education Principles Honors

(Ctea22H)

Credit: 1

Length: Year-long period

Grade: 12

Prerequisite: Junior Teaching Professions Program

This course is for students who desire to pursue a teaching degree in college. Students will experience a blend of academic work in the high school classroom and internships in various grade-level classrooms throughout the WLS district. Through these experiences, students will be better prepared to choose a major field of study in college, saving both time and money. College credit and honors quality points will be awarded for the successful completion of the course. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 3 college credit hours which equals 1 high school credit.

Teaching Professions Capstone

(Ctea90)

Credit: 1

Length: Year-long period

Grade: 12

Prerequisite: Junior Teaching Professions Program

This capstone experience will include internships in various grade-level classrooms throughout the WLS district. When possible, students will request the building and grade-level for their internships. Internships will change throughout the semester, allowing students opportunities to work with various age-levels and subjects. Through these experiences, students will be better prepared to choose a major field of study in college, saving both time and money. Students will also develop an impressive professional portfolio that displays the experiences had throughout the Teaching Professions program.



WELDING

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career Exploration <i>see page 21</i>	Introduction to Welding & Metal Construction	Flux-Cored Arc Welding Honors Welding Technologies Honors Gas Metal Arc Welding Honors Welding Fabrication Honors	Gas Tungsten Arc Welding Honors Welding Capstone Honors Professional Literacy <i>see English section for more information</i>

Introduction to Welding & Metal Construction (CW00)

Credit: .5 credit per semester
Length: Year-long period
Grade: 10
Prerequisite: None
Fee: \$30

Students will be able to use the Shielded Metal Arc Welding process (SMAW) to join various types of metal. They will perform multiple types of welds and joints in all positions. They will select the appropriate type of electrode and adjust welding equipment based on the physical characteristics and properties of the metal. Students will apply their quality control factors to evaluate the quality of welds. Students will apply their knowledge gained through the course by making metal projects to take home at the end of the course.

Welding Technologies Honors (Cwel12H)

Credit: 1
Length: Semester block
Grade: 11
Prerequisite: Acceptance into Welding Program
Fee: \$110
Equipment: Students must purchase steel toed Boots and coveralls for class

Students will use fundamental welding principles involving shielded metal arc, gas tungsten arc, gas metal arc, and oxy-fuel welding in the flat, horizontal, vertical, and overhead positions. An emphasis is given to electrode selection, equipment setup, operating procedures, welding inspection, and testing. Students will learn joint designs and layout and will be introduced to welding codes and standards. Additional topics include employability skills and an emphasis will be given to personal safety. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 2 college credits which equal .67 high school credits.

Gas Metal Arc Welding Honors (Cwel11H)

Credit: 1
Length: Semester block
Grade: 11
Prerequisite: Acceptance into Welding Program
Equipment: Students must purchase steel toed boots and coveralls for class

Students will use the gas metal arc welding process (GMAW) to join various types of metal. They will cut metals using oxy-fuel processes and the power shear to perform multiple types of welds and joints in all positions up to and including overhead. They will select the appropriate type of electrode wire and shielding gas and will adjust welding equipment based on physical characteristics and metal properties. Students will apply quality control factors to evaluate weld quality. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 2 college credits which equal .67 high school credits.



Flux Cored Arc Welding-Honors

(Cwel21H)

Credit: .5 credit per semester

Length: Semester block

Grade: 11

Prerequisite: Junior Welding Technology Program

Equipment: Students must purchase steel toed boots and coveralls for class

Students will be able to safely use the flux cored arc welding process (FCAW) to join various types of metal. They will perform multiple types of welds in all positions up to and including overhead. They will select the appropriate type of cored electrode and adjust welding equipment based on the physical characteristics and properties of the metal. Students will apply their understanding of quality control factors to evaluate the quality of welds. Students will take the AWS D1.1 qualification tests to become qualified welders at the completion of the course. Honors quality points will be awarded and college credit is earned for successful completion of this course. School-To-Work is available second semester for those students who meet the criteria. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 2 college credit hours which equals .67 high school credit.

Welding Fabrication Honors

(Cwel13H)

Credit: 1

Length: Semester Block

Grade: 11

Prerequisite: Acceptance into the Welding Technology program

Equipment: Students must purchase steel toed boots and coveralls for class

Students will apply the knowledge and skills necessary to safely fabricate parts by cutting, drilling, bending, shaping, forming edging, and assembling stock to drawing dimensions. Students will identify weld types, fasteners, and adhesives to join materials. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 2 college credits which equals .67 high school credits.

Gas Tungsten Arc Welding-Honors

(Cwel22H)

Credit: 1

Length: Semester block

Grade: 12

Prerequisite: Junior Welding Technology Program

Fee: \$40

Equipment: Students must purchase steel toed boots and coveralls for class

Students will use the gas tungsten arc welding process (GTAW) to join various types of metal. They will perform multiple types of welds and joints in all positions up to and including overhead. They will select the appropriate type of electrode, filler metal, and shielding gas and be able to adjust welding equipment based on the physical characteristics and properties of the metal. Students will apply quality control factors to evaluate weld quality. Students will take the AWS D1.1 and D9.1 qualification tests to become qualified welders at the completion of the course. Honors quality points will be awarded and college credit is earned for successful completion of this course. All students must also enroll in Technical Literacy. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 2 college credit hours which equals .67 high school credit.



Welding Capstone Honors

(Cwe190)

Credit: 1

Length: Semester Block

Grade: 12

Prerequisite: Junior
Welding Technology
program

Equipment: Students
must purchase steel toed
boots and coveralls for
class

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in the Welding program in a more comprehensive and authentic way. Capstones often include project/problem based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. All students must also enroll in Technical Literacy. Qualified students may elect to enroll in College Credit Plus for this course. Students will earn 2 college credits which equals .67 high school credits.



COMPUTER & BUSINESS

The Computer & Business Department offers courses to prepare students for their future. These courses give a foundation for career possibilities in areas of business, management, and technology. Computer and Business courses provide students the opportunity to gain competent skills to get a job, hands-on computer usage, personal and business consumer information, and a foundation in business.

Coding I

(B112)

Credit: .5 credit per semester

Length: Year-long period

Grade: 9-12

Prerequisite: Keyboarding skills preferred

Fee: \$5

You will learn to read and write computer code using the Microsoft Visual Basic programming language. You will also work with the concepts of object-oriented and event-driven computer programming of Windows applications. You will develop solutions and create programs related to real-world experiences. Coding projects will be a main focus of this course.

Computer Applications I

(B161)

Credit: .5

Length: Semester period

Grade: 9-12

Prerequisite: None

Fee: \$5

Students will expand their computer skills using the Microsoft Office suite with an emphasis on Word and PowerPoint. Using advanced features in Word and PowerPoint will allow you to design attractive and effective documents and presentations for high school, college, and future career projects.

Computer Applications II

(B162)

Credit: .5

Length: Semester period

Grade: 9-12

Prerequisite: None

Fee: \$5

Students will continue to expand their computer skills using the Microsoft Office suite with an emphasis on Excel and Access. Create spreadsheets and databases to organize, format, and calculate data using formulas, charts, and graphs.

Multimedia

(B180)

Credit: .5 credit per semester

Length: Year-long period

Grade: 9-12

Prerequisite: Basic computer skills are recommended

Fee: \$5

Are you ready to learn Adobe Photoshop and Dreamweaver Creative Cloud? This course teaches you hands-on experience using Adobe Photoshop CC to design and create professional, colorful, and exciting posters, brochures, and other business forms. You will learn to use layers, layer effects, filters, and painting/blending options. This course also provides you with hands-on experience using Adobe Dreamweaver CC to develop web pages while working with style sheets, text, images, and links.



Web Design

(B122)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: Basic computer skills are recommended
Fee: \$5

This course teaches you through hands-on experience developing web pages. Concepts such as effective design, page layout, navigation structure, lists, forms, hyperlinks, tables, image formatting, advanced tables, table page layouts, CSS style sheets, and attractiveness of design will be covered. This course will also introduce basic design techniques using Adobe Photoshop.

Success with Google Apps

(B190)

Credit: .5
Length: Semester period
Grades: 9-12
Prerequisite: Basic computer skills are recommended
Fee: \$5

Use the Google Apps to improve tech skills needed in classes during high school and beyond. Students will learn beginning word processing with Google Docs, presentation tips and tricks with Google Slides, spreadsheet basics with Google Sheets, beginning graphic design with Google Drawings, and to create surveys with Google Forms. Digital Citizenship topics will also be covered to ensure students are using the internet appropriately and safely.

Communicating with Google Apps

(B191)

Credit: .5
Length: Semester period
Grades: 9-12
Prerequisite: Basic computer skills are recommended
Fee: \$5

Use the Google Apps to improve communication skills needed for school and all careers. Students will master Google Gmail to effectively communicate with email, create websites using Google Sites, organize notes and to-do lists with Google Keep, share information over Blogger, and organize events and important dates with Google Calendar. Students will use the Google Classroom platform for all assignments. Digital Citizenship topics will also be covered to ensure students are using the internet appropriately and safely.

Money Management/Financial Literacy

(B060)

Credit: .5
Length: Semester period
Grade: 10-12
Prerequisite: None
Fee: \$5

This course is designed to empower students to make sound financial decisions for life. Topics include: managing checking accounts, saving money and building wealth, negotiating great deals, budgeting income and expenses, obtaining and using credit, preparing income taxes, financing a car or home, and consumer awareness. The Dave Ramsey Financial Literacy program is also used. This course satisfies the Ohio financial literacy graduation requirement.



ENGLISH

The Whitmer English Department is committed to assisting students to become more incisive, critical thinkers, more effective communicators, and more intelligent interpreters of texts of all kinds. The Whitmer English Department offers a rigorous program that helps students work to interpret literature and improve as writers. The program emphasizes the diversity of literature in English across a range of genres, periods, authors, and cultures. Teachers in the department are dedicated to developing and supporting communities of learners by involving students in a range of activities. All students are required to earn four English credits to graduate.

Grade	Standard Sequence of Courses	Honors Sequence of Courses
9	9 English A & 9 English B	9 English Honors A & 9 English Honors B
10	10 English A & 10 English B	10 English Honors A & 10 English Honors B
11	11 English-American Literature	AP English Literature and Composition AP English Language and Composition
12	Choice of: African-American Literature Contemporary Literature Creative Writing College Bound Composition Professional Literacy Humanities I Humanities II Literature of War	AP English Literature and Composition AP English Language and Composition

9 English A and B ▲

(E100XA & E100XB)

Credit: .5 credit per semester

Length: Year-long period

Grade: 9

Prerequisite: None

Fee: \$5

This required course is a survey of literature, composition, and speech. In addition to reading non-fiction, students will read short stories, a novel and a play. Composition and grammar are integrated within the literary selections. Vocabulary development will be stressed.

9 English Honors A and B ▲

(E100HA & E100HB)

Credit: .5 credit per semester

Length: Year-long period

Grade: 9

Prerequisite: Assessment and departmental permission

Fee: \$5

This course is designed for the highly motivated student who looks forward to an extremely challenging curriculum. A higher degree of competency and commitment is expected upon acceptance into this course, including required summer reading, research, and writing selections. This course provides an in-depth study of various literary forms including short stories, poetry, drama, epic myths, and novels. Analytical skills will be stressed and students will work to improve grammar and composition skills. Use of technology is incorporated in a variety of ways. An assessment will be given prior to registration to help determine eligibility for honors.

Required Summer Project: Students are required to complete a summer reading project which will complement curriculum throughout the course.

**10 English A and B ▲**

(E200XA & E200XB)

Credit: .5 credit per semester**Length:** Year-long period**Grade:** 10**Prerequisite:** 9 English**Fee:** \$5

This required course focuses on the state approved writing standards while incorporating literature, language, speaking and listening skills. A variety of writing styles, literary genres, and speaking opportunities will be covered. Vocabulary development is tied to the literary selections, and students will continue to improve understanding of grammar and the conventions of effective communication.

10 English Honors A and B ▲

(E200HA & E200HB)

Credit: .5 credit per semester**Length:** Year-long period**Grade:** 10**Prerequisite:** Assessment and departmental permission**Fee:** \$5

This course includes the study of poetic forms, short story construction, structure of the novel, thematic and social analysis of drama, organization and structure of prose, vocabulary and rhetoric, and logic in composition.

Required Summer Project: Students are required to complete a summer reading project which will complement curriculum throughout the course.

11 English American Literature A and B ▲

(E300XA & E300XB)

Credit: .5 credit per semester**Length:** Year-long period**Grade:** 11**Prerequisite:** 10 English**Fee:** \$5

In this required class, students examine many genres from fiction, poetry, journalism, and drama, covering over 400 years of American Literature. Writers from many cultural and minority groups will be studied. Written responses to literature and research, as well as ACT preparation, are important parts of the curriculum.

Courses in the next section (through page 62) can be used to satisfy the fourth English credit, or may be taken as an elective. All of these courses have a Capstone Project requirement.

English - African-American Literature ▲

(E310)

Credit: .5 credit per semester**Length:** Year-long period**Grades:** 11-12**Prerequisite:** 10 English**Fee:** \$6

This course introduces a variety of texts, writers, and time periods that have shaped the African-American literary tradition. Emphasis is placed on the themes of education and leadership during the times of slavery, Reconstruction, Jim Crow, the Harlem Renaissance, segregation, Civil Rights, and post-Civil Rights. In this course, African-American literature is examined as a literary tradition in its own right, and as a lens through which we can better see African-American culture, and American culture as a whole. Critical thinking and written responses to literature are important components to this class.



College Bound Composition ▲ (E420)

Credit: .5 credit per semester
Length: Year-long period
Grade: 12
Prerequisite: 10-11 English
Fee: \$6

This course prepares students for collegiate-level composition classes, furthering the instruction of writing, rhetoric, grammar, and communication skills. The written experience includes college applications, a resume, a research paper, expository, persuasive and personal narrative pieces, a speech, a technical editorial, and an evaluative paper. This course provides students with a smooth academic transition from high school to a post-secondary institution.

English-Contemporary Literature ▲ (E360)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11-12
Prerequisite: 10 English
Fee: \$6

Through a variety of materials written or produced within the last 30 years, this course explores multi-cultural themes, current concerns, and international issues. The literature includes specific literary forms, including, but not limited to, young adult fiction, mystery, romance, science fiction, drama, poetry, short story, graphic novels, and non-fiction. Grammar and vocabulary development are tied to the literary selections. Students will continue to improve their grammar skills and the conventions of effective communication through written responses to literature.

Creative Writing ▲ (E410)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11-12
Prerequisite: 9-10 English
Fee: \$6

In this student-centered course, writers have the opportunity to pursue specific personal writing goals by exploring different genres of literature including the short story, poetry, song writing, drama, and personal narrative/non-fiction. This course offers a supportive and instructional environment for students working to develop their creative writing abilities. Students utilize word processing and desktop publishing tools. Writing will be published in *Pantheon*, and through other avenues, including relevant contests. Students will develop a creative writing portfolio which may be used to further their writing ambitions beyond high school.

English Literature and Composition AP ▲ (E360A)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11-12
Prerequisite: Assessment and departmental permission
Fee: \$6

The Advanced Placement (AP) program is sponsored by The College Board and provides an opportunity for high school students to receive credit for college level course work. This course includes both the reading and analysis of varieties of prose, and the study of the process of writing. Students study examples from various fields and periods that serve as models of effective styles. This course offers a variety of writing assignments calling for the use of different styles and tones. Writing assignments focus on the critical analysis of literature, and include essays in exposition and argument. Students study representative works from several genres and periods. Students can gain college credit upon successful completion of the AP test in May. This course is offered in odd graduating class years (i.e. 2020-21)

Required Summer Project: Students are required to complete a summer reading project which will complement curriculum throughout the course.



English Language and Composition AP

(E361A)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: Assessment and departmental permission

Fee: \$6

The Advanced Placement (AP) program is sponsored by The College Board and provides an opportunity for high school students to receive credit for college-level course work. AP Language Composition focuses on the study of rhetoric (the art of written and spoken persuasion). Students evaluate, synthesize, and cite research to support their own arguments. This course also includes analyzing the rhetorical elements and their effects in non-fiction and fiction texts, including graphic images. Students can gain college credit upon successful completion of the AP test in May. This course is offered in even graduating class years (i.e. 2021-22)

Required Summer Project: After application and acceptance into the class, students are required to complete a summer reading project/paper.

12 English - Professional Literacy ▲

(E401)

Credit: .5 credit per semester

Length: Year-long period

Grade: 12

Fee: \$6

This course is designed for students who realize, college bound or not, they will need certain skills and knowledge to succeed in the workplace. Eventually, all students will enter the workforce after high school, a trade school, or college; thus, this curriculum is focused on three Ps for career success: Passion, Professionalism, and Presentation. Passion is the key to longevity in one's field of work and the way people present themselves can be the key to success in many areas of business and industry. This focused curriculum will concentrate on reading and writing relevant to the working world as well as 21st century skills demanded for success post-high school. Students will be prepared for the workplace, technical college, and/or a four-year university. Professionalism and workplace decorum will be stressed in this class. Students are prepped for every aspect of the senior project which serves as proof of graduation readiness.

Prerequisite: This course is available for all students. However, students enrolled in one of the following CTC programs must take this course: Automotive Technology II, Culinary Arts II, Welding & Metal Technology II, Computer Network, Construction, Digital Graphic Design or Criminal Justice. Any other senior in a CTC program may elect to take this course to satisfy their 4th English credit or can be recommended by a CT instructor.

Humanities I: Life Experiences ▲

(E441)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: 9-10 English

Fee: \$6

This course is an introduction to the Humanities discipline that examines life's current fundamental questions and universal experiences. Humanities I covers a range of subjects including literature, history, philosophy, creative arts, culture, and film. The course stresses oral and written expression, close reading, textual analysis, and critical thinking. This course is NOT a prerequisite to the other humanities course. Students are prepped for every aspect of the senior project which serves as proof of graduation readiness.



Humanities II: World Cultures ▲

(E442)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: 9-10 English

Fee: \$6

This course is a comprehensive study of human cultures, incorporating literature, history, philosophy, mythology, religion, arts, music, and film. Emphasis is on the interconnectedness of various aspects of cultures from early modern times to the present. Students are assessed using a variety of methods, including, but not limited to, essays, MLA research assignments, presentations, and projects. This course is NOT a prerequisite to the other humanities course. Students are prepped for every aspect of the senior project which serves as proof of graduation readiness.

Literature of War ▲

(E460)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Pre-requisite: None

Fee: \$6

This course will focus on the literature produced about wars or armed conflicts. As a class, we will seek the answer to many enduring questions about war and peace: How does a group become “the enemy”? How can armed conflict be sanctioned as a moral act? How are normal men able to objectify enemy soldiers or even non-combatants? How is becoming a warrior linked to gender identity? What psychological price do soldiers pay for their service? How does the experience of those on the frontlines of combat differ from that of high officers and politicians who declare and direct war? We will seek the answers to these questions using critical reading, writing, and research skills. Students are prepped for every aspect of the senior project which serves as proof of graduation readiness.

College Composition I CCP ▲

(E500U)

Credit: 1 (Dual credit. Students will receive 1 high school credit and 3 credits at the University of Toledo)

Length: Semester period

Grade: 10-12

Pre-requisite: Acceptance at the University of Toledo and ACT Composite with a score of 18 or Accuplacer Sentence Skills English with a score of 88 or TOTAL SCORE with a score of 940

College Composition I is a dual credit course in which students will receive both high school and college credit at The University of Toledo upon successful completion of this course. Students will use explanatory and persuasive writing in both personal and public genres. Instruction and practice in generating, focusing, developing, researching and presenting ideas in ways consistent with one's subject, purposes and intended audience will be covered during the semester.

College Composition II CCP ▲

(E514U)

Credit: 1 (Dual credit. Students will receive 1 high school credit and 3 credits at the University of Toledo)

Length: Semester period

Grade: 10-12

Pre-requisite: Completion of College Composition I with a minimum grade of D-.

College Composition II: Academic Disclosures and Disciplines is a dual credit course in which students will receive both high school and college credit at The University of Toledo upon successful completion of this course. Reading and analyzing documents from specific disciplines to synthesize results from multiple perspectives and produce disciplinarily appropriate writing from your research will be covered. A significant focus on academic argument and advanced research writing skills will be included. Critical reading and research papers are required.



***The following courses are considered electives and do not meet the requirements for an English credit.**

ACT English Preparation* (E540)

Credit: .5
Length: Semester period
Grade: 10-12
Prerequisite: None

The ACT Prep course is designed to familiarize students with the different sections of the test required for admission by many universities. Well-prepared students have proven to score significantly higher on the ACT, which may increase their chances of receiving scholarships and enable them to have more options when selecting a college. Learning to pace yourself during the ACT is tricky because the test demands that students try to answer as many questions as possible without losing accuracy. Students will take many practice tests throughout the semester, learn and master test taking strategies, as well as, learn methods of reducing test anxiety.

Drama I* (E563)

Credit: .5
Length: Semester period
Grade: 9-12
Prerequisite: None

This introductory elective course surveys the various aspects of theatre performance including improvisation, pantomime, staged performance, theatre history, production applications, dramatic literature, creative writing, and dramatic reflection and response. Through voice and body work, students become more aware of their environments and increase their ability to communication in healthy and positive ways. Please note: This is a performance-based course. Students immediately begin learning the art of individual and group performance. Students will supply project materials as needed.

Drama II* (E564)

Credit: .5
Length: Semester period
Grade: 10-12
Prerequisite: Drama I

This advanced elective course further develops students' understanding of concepts begun in Drama I. Drama II fosters an in-depth examination of character development, performance techniques, theatre history and styles, dramatic literature, and advanced elements of theatre production. Students focus on developing audition-quality monologues and scenes. Students are required to attend one theatrical performance and complete various oral and written projects. Students will supply project materials as needed. Please note: This is a performance-based course.

The Graphic Novel* (E545)

Credit: .5
Length: Semester period
Grade: 9-12
Prerequisite: none

The Graphic Novel is primarily a reading intensive course. Students will read a wide variety of graphic novels by the conclusion of the semester course and will create three distinct writing components as readers, reviewers, and creators. Students will construct a variety of graphic narratives both independently and collaboratively. Through this study of a distinct genre of literature, students will deeply explore a wide variety of topics and themes and techniques.



Journalism* (E430)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: None

Journalism is a writing intensive course that provides students with an understanding of journalism and its basis for legal and ethical rights and responsibilities. Students study the basic principles of print and on-line journalism as they examine the role of printed and on-line news media in our society. They learn investigative skills, responsible reporting and journalistic writing techniques as they read, respond to, and write their own news, feature, and editorial articles. Students conduct interviews, research, write, and design their own publications and for Whitmer's own newspaper, Panther Press.

Speech* ▲ (E450)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: None

This course is for students who wish to acquire self-confidence and poise while developing formal and informal communication skills. Organization, structure, research, and delivery required in public speaking are emphasized. Also covered are persuasive speaking, group discussions, and oral interpretation of literature. Impromptu speaking, parliamentary procedure, and competitive speaking will be included.

Theatre Arts Appreciation* (E565)

Credit: .5
Length: Semester period
Grade: 9-12
Prerequisite: None

This introductory course gives students a glimpse at the world of dramatic literature and theatre arts appreciation. Please note: This is a nonperformance-based course. Students will explore various world literature and humanistic concepts related to performance, genre styles, and dramatic writing. Ideas will include great literary movements in drama, theatre and film styles, social and personal issues expressed through stage work, and performance in the ancient and modern world. Students will also receive a brief introduction to non-performance aspects of theatre including set design, costuming, make up, lighting and sound, and mise en scene (staging/framing a scene).

Yearbook s1 and s2* (E580XA & E580XB)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: Application and teacher recommendation

This highly demanding elective class requires students to be independent as they study yearbook preparation, sales promotion, photography, caption writing, layout, desktop publishing, and evaluation of layouts. Students are expected to use their abilities for the good of *The Oracle*. Students will be accepted into the program based on an application process and teacher recommendation. Once accepted, students are required to sell at least ½ page of business and/or senior ads.

*These courses are considered electives and do not meet the requirements for an English credit.

▲ Denotes an NCAA approved course.



HEALTH and PHYSICAL EDUCATION

The State of Ohio requires health and physical education to be successfully completed by all students prior to graduation. Health is generally a course for freshman and PE Sports and Physical Fitness is generally a course for sophomores. All of the other PE and Health courses listed are elective courses. Students are required to change into appropriate athletic clothing for all PE classes and jewelry is asked to be removed for safety. Participation is required for successful completion of all courses in the Health and Physical Education Department.

9 th Grade	9 th or 10 th Grade	10 th , 11 th or 12 th Grade
Health A & Health B (required)	PE Team Sports and Physical Fitness A PE Team Sports and Physical Fitness B (required)	Health and PE Electives

Health (H101)

Credit: .5 credit
Length: Semester period
Grade: 9-12
Prerequisite: None
Fee: \$1

Health is an academic course required for graduation. Students will comprehend key concepts in the following content areas: mental health, nutrition, fitness, alcohol, tobacco, and other drug prevention, sexuality, and violence and injury prevention. Students will analyze influences on health behavior, demonstrate the ability to access valid health information, demonstrate interpersonal communication skills, use decision-making and goal-setting skills, practice health enhancing behaviors, and advocate for positive health behaviors. Students will also participate in career exploration activities. Students will be empowered through this course to make good decisions for their future.

PE Team Sports and Physical Fitness A & B (P101XA & P101XB)

Credit: .25 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: None

This course meets the physical education requirement for graduation. The focus of the course includes fitness and conditioning through participation in cardiovascular activities as well as team sports, lifetime sports, and some individual sports. The classes will be introduced to the weight room where the students will work with free weights and machines. Students will be assessed using the ODE PE state standards, fitness testing, written and practical evaluations, participation, and effort.

First Aid (H300)

Credit: .5 credit per semester
Length: Year-long period
Grade: 10-12
Prerequisite: Health
Fee: \$12

This course will prepare students to meet the needs of emergency first aid care. Students will gain an increased awareness of personal safety and accident prevention. Completion of the course requirements, and passage of the American Red Cross requirements, will earn the student first aid and CPR certification.



Food and Fitness

(H201)

Credit: .5

Length: Semester period

Grade: 10-12

Prerequisite: Health and PE

This course builds upon the concepts learned in health and physical education. Knowledge of nutrition and fitness principles will be expanded upon in the classroom projects such as healthy grocery store shopping, cafeteria design, creation of a healthy cookbook, fad diet research, and other activities to apply the skills learned in the classroom. Students will also be in the gym participating in a variety of activities ranging from moderate to advanced activity.

Lifetime & Recreational Sports (Intro)

(P403)

Credit: .25

Length: Semester period

Grade: 10-12

Prerequisite: Required PE

This elective physical education class will introduce students to sports and activities that they can enjoy for their entire life. Activities may include: archery, badminton, golf, tennis, table tennis, volleyball, and softball. This class is for the student who likes sports and competition.

Lifetime & Recreational Sports (Advanced)

(P404)

Credit: .25

Length: Semester period

Grade: 10-12

Prerequisite: Lifetime &
Recreational Sports Intro

This elective class is for the student who is highly competitive. This class expands upon the concepts learned in the introductory class. A greater emphasis will be placed on strategy and knowledge development.

Physical Training & Self-Defense

(P303)

Credit: .25

Length: Semester period

Grade: 10-12

Prerequisite: Required PE

This course is highly recommended for Criminal Justice students, although, this course is open to anyone interested in becoming physically fit and learning basic self-defense techniques. This course will include running, conditioning drills, weight training, fitness testing, circuit training, and cross fit activities.

Weight Training (Intro)

(P503)

Credit: .25

Length: Semester period

Grade: 10-12

Prerequisite: Required PE

This elective physical education class will introduce a basic weight lifting program for the beginning lifter. Various lifts and machines will be introduced, with spotting and safety techniques heavily emphasized. This class will also include running, cross fit activities, circuit training, conditioning drills, and numerous sports activities. This class is for the highly motivated student interested in weight training and fitness.

Weight Training (Advanced)

(P504)

Credit: .25

Length: Semester period

Grade: 10-12

Prerequisite: Introduction to
Weight Training

This physical education elective class will suit the experienced weight lifter. The class involves weight training, fitness testing, circuit training, conditioning, cross fit activities, and sports activities. Pre- and post-assessments will determine individual strength levels and track improvements. This class is for the highly motivated student interested in weight training and fitness.

**Junior Reserve Officer Training Corps (JROTC)*****(P150)**

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: none

JROTC is designed to teach high school students the value of citizenship, leadership service the community, personal responsibility, and a sense of accomplishment while instilling in them self-esteem, teamwork, and self-discipline. The focus of this course is reflected in the JROTC mission statement: "To motivate young people to be better citizens." Qualified, retired military instructors teach these courses. Students may participate in this program for one to four years.

JROTC Drill***(P160)**

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: none

JROTC Drill classroom material is identical to the other JROTC classes but the Leadership Lab is devoted to competitive drill practice. The objective of the co-curricular JROTC Drill program is to develop the precision required for competition with other JROTC schools. Overnight travel is required once or twice a year. Students will receive instruction in different types of drill such as exhibition, regulation, and color guard. Students may participate in this program for one to four years. Students may be required to attend additional practices outside of the school day.

* Students may elect to complete 2 credits of JROTC or JROTC Drill as a substitute for the required .50 credit of physical education.



INDUSTRIAL TECHNOLOGY

Industrial Technology courses provide an important link between educational theory and hands-on application. The Industrial Technology curriculum allows the student to explore different career opportunities, experience real-life problem solving situations, and realize the connection between the core subject area curriculum and how it can be applied to a variety of careers.

Architecture I

(I110)

Credit: .5 credit per semester

Length: Year-long period

Grade: 9-12

Prerequisite: None
(Recommended for students interested in the Construction Technology program)

Fee: \$15

This course covers the basics of architectural drawing, site planning, and the construction of homes. You will use Revit Software to design your own house plan and construct a model home. Learn the construction processes and terminology. Topics of discussion will include floor planning, reading of blue prints, site planning, building codes, surveying, site safety, elevations, and construction terminology. You will learn basic drafting techniques and create sketches of foundations, floors, walls, and roofing systems using an architect's scale.

Architecture II

(I120)

Credit: .5 credit per semester

Length: Year-long period

Grade: 10-12

Prerequisite: Architecture I

Fee: \$15

This course provides an opportunity for students to design, redesign, and draw sets of architectural construction plans. Students will also use Revit Software for designing homes. Throughout the course, the students will learn the basics behind structural integrity of homes to include designing "green" terminology. Students will compete in the AIA High School Design competition against other area students. This course is recommended for students interested in careers related to construction systems, architecture, and civil engineering.

Woods I- Woodworking Technology

(I201)

Credit: .5 credit per semester

Length: Year-long period

Grade: 9-12

Prerequisite: None

Fee: \$15

Students will have hands-on opportunities to learn all phases of basic woodworking techniques and tools. Basic woodworking skills and safety procedures will be taught through assigned projects. Students will learn how to develop and read basic drawings that are commonly used in the manufacturing industry. Students will also be able to design and build projects using their own ideas and interests. Students pay for all materials for all projects.

Woods II – Fine Furniture Design

(I202)

Credit: .5 credit per semester

Length: Year-long period

Grade: 10 -12

Prerequisite: Woods I or Introduction to Construction

Fee: \$15

This course is for those students who have a flair for details, designing, and who are seeking to further their knowledge of woodworking. This course covers the advanced use of power tools, jigs, and fixtures. The main project for this class is a small table using mortise and tenon joinery as well as a three dimensional leg pattern. Students will also explore basic banding and/or inlay design. Students pay for all materials for all projects.



Woods III – Cabinetmaking

(I203)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: Woods II

Fee: \$15

This course will increase students' knowledge of woodworking as they explore making a small cabinet. Students will design a cabinet that they will make utilizing advanced techniques with power tools, jigs, and fixtures to complete their cabinet. More advanced students will expand previous knowledge of banding and/or inlay design they learned in Fine Furniture Design with their cabinet. Students pay for all materials for all projects.



MATHEMATICS

We are committed to creating and maintaining the highest quality instructional program that ensures every student reaches a high level of academic achievement as determined by state and national standards. Mathematics curriculum is designed to achieve a balance among concepts, skills, and problem solving. Our curriculum stresses rigorous concept development, presents realistic and relevant tasks, while maintaining a strong emphasis on computational and procedural skills. Mathematics is designed to ensure students are able to make connections among mathematical topics and other disciplines. All students are required to earn four math credits. **All students enrolled in math courses are required to have a TI-36x Pro scientific calculator.**

Grade	Standard Sequence of Courses	Grade	Honors Sequence of Courses
		Jr. High	Algebra I
9	Algebra I A & Algebra I B	9	Algebra I Honors A & Algebra I Honors B Geometry Honors A & Geometry Honors B
10	Geometry A & Geometry B	10	Algebra II Honors
10/11	Algebra II	10/11	Pre-Calculus Honors
12	Choice of: Pre-Calculus College Prep Math Statistic Introduction to Calculus Career & Real World Concepts in Statistics & Probability CCP College Algebra, CCP Statistics	11/12	Choice of: AP Statistics AP Calculus Introduction to Calculus, CCP College Algebra CCP Statistics

Algebra I A and B ▲

(M111XA & M111XB)

Credit: .5 credit per semester

Length: Year-long period

Grade: 9

Prerequisite: None

Algebra I is the required foundation course in mathematics and emphasizes the concepts required to prepare students for state testing, the ACT and SAT, and advanced Algebra. Concepts include linear equations, inequalities, functions and relations, systems of equations, inequalities, polynomials expressions, quadratic equations and functions, exponential equations and functions, and statistics. All students are required to have a TI-36X Pro scientific calculator.

**Algebra I Honors A and B ▲**

(M111HA & M111HB)

Credit: .5 credit per semester**Length:** Year-long period**Grade:** 9**Prerequisite:** Assessment and Departmental Permission

This course is for students who desire a challenge in mathematics. The course explores Algebra I at a more intensive level than regular Algebra I and is geared toward students who apply math concepts in more challenging situations. Self-motivation and consistent study habits are necessary for success in this course. Students can expect a challenging pace and demanding workload. A Texas Instrument TI-36X Pro scientific calculator is required.

Required summer project: Students are required to complete a summer assignment which will review and strengthen prerequisite Algebra I skills.

Geometry A and B ▲

(M211XA & M211XB)

Credit: .5 credit per semester**Length:** Year-long period**Grades:** 9–12**Prerequisite:** Algebra I

Geometry is a course designed to strengthen and maintain the skills students gained in Algebra I and expose students to crucial Geometry skills that will be tested on the ACT/SAT. Topics include geometric reasoning and proofs, parallel and perpendicular lines, congruency, properties of quadrilaterals, similarity, circles, constructions, transformations, volume, right triangles, probabilities, and trigonometry. All students are required to have a TI-36X Pro scientific calculator.

Geometry Honors A and B ▲

(M211HA & M211HB)

Credit: .5 credit per semester**Length:** Year-long period**Grades:** 9–10**Prerequisite:** Grade of an “A” or higher in Algebra I with teacher recommendation

This course is for students who desire a challenge in mathematics. The course explores Geometry at a more intensive level than regular Geometry and is geared toward students who apply math concepts in more challenging situations. Self-motivation and consistent study habits are necessary for success in this course. Students can expect a challenging pace and demanding workload. A Texas Instrument TI-36X Pro scientific calculator is required.

Required summer project: Students are required to complete a summer assignment which will build geometric vocabulary through geometric constructions.

Algebra II A and B ▲

(M412XA & M412XB)

Credit: .5 credit per semester**Length:** Year-long period**Grades:** 10–12**Prerequisite:** Geometry

Algebra II explores linear systems and inequalities, matrices, and the following types of functions: quadratic, polynomial, rational, absolute value, radical, exponential, and logarithmic. Graphing technology skills will be taught and assessed throughout the course. Students earning a “B” or higher in Geometry will be placed into a year-long period Algebra II course. The Math Department may recommend students be placed in a year-long double period Algebra II course. All students are required to have a TI-36X Pro scientific calculator.

**Algebra II Honors A and B ▲**

(M412HA & M412HB)

Credit: .5 credit per semester**Length:** Year-long period**Grades:** 9–12**Prerequisite:** A grade of "B" or better in Honors Geometry with teacher recommendation

This course explores the Algebra II concepts at a more intense level and is geared to students who are able to apply basic concepts in more challenging situations. Self-motivation and consistent study habits are necessary for success in this course. Students can expect a challenging pace and demanding workload. Knowledge of graphing technology is required which will be expanded and enriched. Students must demonstrate graphing technology proficiency on all assessments. A Texas Instrument TI-36X Pro scientific calculator is required.

Required summer project: Students are required to complete a summer assignment which will review and strengthen prerequisite skills for Algebra II.

Algebra II (sem 1 and sem 2) ▲

(M422 & M432)

Credit: 1 credit per semester**Grades:** 11-12**Length:** Year-long double period**Prerequisite:** Department placement

The year-long Algebra II double period course is a course designed to meet the needs of students who have an academic history of struggling with the study of Algebra. The course covers the same concepts taught in Algebra II, but at a slower pace. A slower pace provides additional learning time for students to learn more difficult Algebra II skills, as well as providing additional time for intervention based upon student needs and to help students succeed at the post-secondary level. All students enrolled in math courses are required to have a TI-36X Pro scientific calculator.

Pre-Calculus ▲

(M700)

Credit: .5 credit per semester**Length:** Year-long period**Grades:** 11-12**Prerequisite:** Algebra II

This course is designed for students who have completed Algebra I, Geometry, and Algebra II. The course includes extensive work in trigonometry, the study of the theory of equations, rational functions, parametric equations, conics, exponential and logarithmic functions, and topics related to introductory calculus. Graphing technology skills will be expanded and enriched. Students must demonstrate graphing calculator proficiency on all assessments. All students are required to have a TI-36X Pro calculator.

Pre-Calculus Honors ▲

(M700H)

Credit: .5 credit per semester**Length:** Year-long period**Grades:** 10-12**Prerequisite:** Honors Algebra II

This course is designed to help students acquire the skills necessary for success in their study of calculus and science. In addition to the topics covered in the standard pre-calculus course, this course will take a more theoretical and rigorous approach to topics that are underpinnings of calculus. The course is recommended for students who received either an "A" or "B" in Honors Algebra II. Self-motivation and consistent study habits are necessary for success in this course. Students can expect a challenging pace and demanding workload. Graphing technology skills will be expanded and enriched. Students must demonstrate graphing calculator proficiency on all assessments. A Texas Instrument TI-36X Pro scientific calculator is required.

Required summer project: Students are required to complete a summer assignment which will review and strengthen prerequisite skills for Pre-Calculus.



Introduction to Calculus

(M711)

Credit: .5 credit per semester

Length: Year-long period

Grades: 11-12

Prerequisite: Grade of "C" or higher in Pre-Calculus or Pre-Calculus Honors recommended

This course is for students who have a thorough knowledge of college preparatory mathematics including algebra, axiomatic geometry, trigonometry, and analytic geometry. Topics covered include: properties of functions, limits, the derivative, and applications of the derivative. The course is designed to be introductory to calculus at the college or university level. A Texas Instrument TI-36X Pro scientific calculator is required.

AP Calculus (AB/AP) ▲

(M700A)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: Prerequisite Grade of "B" or higher in either Pre-Calculus or Pre-Calculus Honors recommended

The Advanced Placement (AP) program is sponsored by The College Board and provides an opportunity for high school students to receive credit for college level course work. This course is for students who have a thorough knowledge of college preparatory mathematics, including algebra, axiomatic geometry, trigonometry, and analytic geometry. Topics to be covered include: properties of functions, limits, the derivative, applications of the derivative, antiderivatives, techniques on integration, the definite integral, and applications of the integral. Students are highly encouraged to participate in the National AP Calculus Exam given in May.

Required summer project: Students are required to complete a summer assignment which will review and strengthen prerequisite skills for AP Calculus.

Statistics ▲

(M800)

Credit: .5 credit per semester

Length: Year-long period

Grades: 11-12

Prerequisite: Recommended grade of "C" or higher in Algebra II and teacher or counselor recommendation

This course is designed to provide an understanding of basic statistical procedures and concepts. Measure of central tendency and variation, probability, normal distributions, correlation and regression, and some non-parametric statistics are course topics. Students selecting this course should have a strong algebra background. It is strongly recommended that students taking this course have earned a "C" or higher in Algebra II. Graphing calculator skills will be expanded and enriched. Students must demonstrate graphing technology proficiency on all assessments. All students enrolled in math courses are required to have a TI-36X Pro scientific calculator.



AP Statistics ▲

(M800A)

Credit: .5 credit per semester

Length: Year-long period

Grades: 11-12

Prerequisite:

Recommended grade of "C" or higher in Algebra II Honors or a grade of "B" or higher in Algebra II

The Advanced Placement (AP) program is sponsored by The College Board and provides an opportunity for high school students to receive credit for college-level course work. This course is intended for students who have a thorough knowledge of college preparatory mathematics, and have an interest in careers related to psychology, sociology, health science, or business. Four broad conceptual themes will be studied: exploring data, planning a study, anticipating patterns, and statistical inference. Operating a graphing calculator is an integral part of the course. Graphing technology skills will be expanded and enriched. Students must demonstrate graphing proficiency on all assessments. Students are encouraged to participate in the National AP Statistic Exam given in May. A Texas Instrument TI-36X Pro scientific calculator is required.

College Prep Math ▲

(M900)

Credit: .5 credit per semester

Length: Year-long period

Grade: 12

Prerequisite:

Recommended grade of "C" or higher in Algebra II and teacher recommendation

This college preparatory algebra course is for students who are planning on attending college to study a major not focused in math or science. The curriculum of this course is aligned to the ACT college readiness standards which address the following topics: basic operation and applications, probability, statistics and data analysis, number concepts and properties, expressions, equations and inequalities, graphical representations, properties of plane figures, trigonometry, measurement, and functions. Graphing calculator skills will be expanded and assessed in each unit. All students enrolled in math courses are required to have a TI-36X Pro scientific calculator.

College Algebra CCP ▲

(M999U) (Math1320 at UT)

Credit: 1 (Dual Credit: Students will receive 1 high school credit and 3 credits at The University of Toledo)

Length: Semester Period

Grades: 10-12

Prerequisites: Algebra II and The University of Toledo Math Placement Test, or 20 on the Math ACT

College Algebra is a dual credit course in which students will receive both high school and college credit at The University of Toledo upon successful completion of this course. Students are required to attend the College Credit Plus (CCP) informational night, sign the CCP intent to participate form, and apply and be accepted to The University of Toledo. Students must take a placement test prior to enrolling in this course and score high enough for enrollment. Students may elect to take this course for high school credit only. If interested, students should speak with their counselor. College Algebra is an entry-level college Mathematics course. The course includes a review of number systems, elementary theory of equations and inequalities, functions and relations, exponentials and logarithms, systems of equations, and topics in analytical geometry. Please see page 10 for more information about the CCP program.



Introduction to Statistics CCP ▲

(M899U) (MATH 2600 at UT)

Credit: 1 (Dual Credit: Students will receive 1 high school credit and 3 credits at The University of Toledo)

Length: Semester Period

Grades: 10-12

Prerequisites: Algebra II and The University of Toledo Math Placement Test, or 20 on the Math ACT

Introduction to Statistics is a dual credit course in which students will receive both high school and college credit through The University of Toledo upon successful completion of this course. Students are required to attend the College Credit Plus (CCP) informational night, sign the CCP intent to participate form, and apply and be accepted to The University of Toledo. Students must take a placement test prior to enrolling in this course and score high enough for enrollment. Students may elect to take this course for high school credit only. If interested, students should speak with their counselor. Introduction to Statistics is an introduction to descriptive and inferential statistical methods including point and interval estimation, hypothesis testing, and regression. Please see page 10 for more information about the CCP Program.

Career and Real-World Mathematics

(M950)

Credit: .5 credit per semester

Length: Year-long period

Grade: 12

Prerequisite:
Teacher/Counselor recommendation

This math course focuses on real-world financial literacy, personal finance, and business subjects. Students apply what they learned in Algebra I and Geometry to topics including personal income, taxes, checking and savings accounts, credit, loans and payments, car leasing and purchasing, home mortgages, stocks, insurance, and retirement planning. Students then extend their investigations using more advanced mathematics, such as systems of equations (when studying cost and profit issues) and exponential functions (when calculating interest problems). All students are required to have a TI-36X Pro scientific calculator.

Concepts in Statistics and Probability

(M810)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite:
Teacher/Counselor recommendation

Probability and Statistics provides a curriculum focused on understanding key data analysis and probabilistic concepts, calculations, and relevance to real-world applications. Course topics include types of data, common methods used to collect data, and the various representations of data, including histograms, bar graphs, box plots, and scatterplots. Students learn to work with data by analyzing and employing methods of prediction, specifically involving samples and populations, distributions, summary statistics, regression analysis, transformations, simulations, and inference. Ideas involving probability are covered as students explore the relationship between probability and data analysis. Probability topics covered include: sample space, empirical and theoretical probability, expected value, and independent and compound events. All students are required to have a TI-36X Pro scientific calculator.

▲ Denotes an NCAA approved course.



MUSIC

In the high school music course of study, performance is one of the main goals. Through a variety of instrumental and vocal music classes, students experience the effects and rewards of creative achievement. This endeavor is enhanced by their participation in performing ensembles that provide music for community and school events throughout the entire school year. These courses also meet the fine arts requirements of college entrance.

Marching/Fall Concert Band

(U100)

Credit: 1

Length: Semester block

Grade: 9-12

Prerequisite: Director approval and ability to read music

Fee: \$8

Fall Band consists of Marching Band and Concert Band. Attendance at all performances including football games, parades, concerts, and extra rehearsals is mandatory. Failure to meet this requirement will result in the lowering of the student's grade. Marching Band members are required to attend Band Camp, typically beginning three Mondays before the first football game. Members are also required to purchase uniform accessories and instrument accessories. All students will be placed into a concert band based on auditions which take place at the conclusion of Marching Band. Students must also register for Spring Concert Band (except for extenuating circumstances requiring director and administrative approval).

Band Auxiliary

(U101)

Credit: 1

Length: Semester block

Grade: 9-12

Prerequisite: Audition

In this course, twirlers and members of the dance team learn choreography, practice routines, engage in conditioning and stretching techniques, and rehearse with the Marching Band. Twirlers and dance team members are selected through an audition process in the spring of the previous school year. Attendance at all performances including football games, parades, concerts, festivals, competitions, and extra rehearsals is mandatory. Failure to meet this requirement will result in the lowering of the student's grade. Twirlers and dance team Members are required to attend Band Camp, typically beginning three Mondays before the first football game. Students are also required to purchase uniforms and accessories.

Spring Concert Band

(U110XB)

Credit: .5

Length: Semester period

Grade: 9-12

Prerequisite: Audition/Director approval

Spring Band is the mandatory continuation of Fall Band. Attendance at all performances including concerts and extra rehearsals is mandatory. Failure to meet this requirement will result in the lowering of the student's grade. All students will be placed into a concert band based on auditions which take place at the conclusion of Marching Band. Concert Band continues through the remainder of the school year. Students must be registered for Fall Band (except for extenuating circumstances requiring director and administrative approval).



Jazz Ensemble

(U130)

Credit: .5

Length: Semester period

Grade: 9-12

Prerequisite: Audition and/or director approval and ability to read music

Jazz Ensemble consists of saxophones, trumpets, trombones, guitar, piano, bass, and drum set performing literature in swing style and learning improvisation. Other instruments are eligible on a case by case basis. Please see the director for more information. Students must complete an audition to be placed into the ensemble. Students that play either guitar, piano, bass, or drums must be able to read music. Attendance at all performances including concerts, festivals, and extra rehearsals is mandatory. Failure to meet this requirement will result in the lowering of the student's grade. Students MUST be registered for Marching/Fall, Spring Band or Orchestra.

Orchestra A & B

(U300XA & U300XB)

Credit: .5 credit per semester

Length: Year-long period

Grade: 9-12

Prerequisite: Completion of 8th grade Orchestra or Audition/Director Approval

Fee: \$5

The Orchestra consists of violins, violas, cellos, and basses. Membership in orchestra is limited to any string player who is continuing the study of his or her instrument. Transfer students may be required to audition. Students will learn a variety of music and continue to develop technical skills and are expected to practice regularly. The orchestra performs several concerts and festivals throughout the year. Attendance at all scheduled afterschool rehearsals, concerts, and other performances is mandatory. Failure to meet this requirement will result in the lowering of the student's grade.

Concert Choir A & B

(U220XA & U220XB)

Credit: .5 credit per semester

Length: Year-long period

Grades: 9-12

Prerequisite: Audition

Fee: \$8

Students will develop vocal technique, tone production, and general choral skills including sight singing and ear training. Students will prepare and perform choral works written for a larger chorus. Students will be required to perform in approximately four concerts per school year. Attendance at all scheduled concert performances is mandatory.

Chorale A & B

(U200XA & U 200XB)

Credit: .5 credit per semester

Length: Year-long period

Grades: 9-12

Prerequisite: Audition

Fee: \$8

Chorale is a chamber ensemble of select men and women's voices chosen by audition. Students must demonstrate superior musical knowledge, advanced vocal production, and self-discipline. Students will prepare and perform a variety of music selected from a wide range of musical periods and styles. Special focus will be given to sight singing and ear training skills. Participation in small ensembles is strongly encouraged. Students will be required to perform in approximately four concerts per school year. Attendance at all scheduled concert performances is mandatory.

Popular Music in America

(U140)

Credit: .5

Length: Semester period

Grade: 9-12

Prerequisite: None

The Popular Music in America course is designed to give an in-depth look at the musicians that have made music in this country as famous and diverse as the people themselves. From Louis Armstrong to the Beatles, Miles Davis to Led Zeppelin, many of the great pioneers and innovators of American music will be focused on to give the student a true appreciation of popular music in America.



Music and Movement: Exploring Dance Techniques**(U122)****Credit:** .5**Length:** Semester period**Grade:** 9-12**Prerequisite:** None

The course will focus on learning proper dance techniques such as isolations of the body, improving performance quality, developing complex rhythms, and patterns. Students will also build the strength, flexibility, and control needed to execute moves. Each class includes barré exercises, center floor work, and across-the-floor combinations. Classes will be designed to help each dancer identify and work specific techniques and skills needed to improve understanding of the performing arts. Students will learn dance techniques and terminology.

Honors Music**(U110HB (band), U200HB (chorale), or U300HB (orchestra))****Credit:** .5**Length:** Semester period**Grade:** 12**Prerequisite:** Application and audition

To receive honors music credit, students must have been involved in the year-long music program (band, orchestra, or chorale) beginning with the Freshman year participating through the Senior year. One honor credit is applied to the last semester grade. Application, audition information, and specific course requirements may be obtained from the music department.



SCIENCE

Students will have the opportunity to explore the physical and living world. Science courses are designed to meet individual career goals. In today's job market, it is important for students to have as many career opportunities as possible. All students, and especially college-bound students, are strongly encouraged to take four years of science, and those considering future careers related to science are strongly encouraged to take advanced level coursework including Chemistry, Physics, and Anatomy and Physiology, or an Advanced Placement Chemistry class. Three science credits, including Physical Science and Biology, are required for graduation.

Grade	Standard Sequence of Courses	Honors Sequence of Courses
9	Physical Science A & Physical Science B	Physical Science Honors A & Physical Science Honors B
10	Biology A & Biology B	Biology Honors A & Biology Honors B
11 and/or 12	Choice of: Anatomy and Physiology Anatomy and Physiology for CTC Biology II Chemistry Environmental Science Physical Geology Physics	Choice of: Anatomy and Physiology Honors Chemistry Honors Physics Honors
12	Same as above	AP Chemistry A & AP Chemistry B

Physical Science A and B ▲ (S100XA & S100XB)

Credit: .5 credits per semester This course includes (A) an introduction to chemistry and matter, and (B) motion, energy, electricity, and the universe. Students will conduct laboratory investigations to understand these topics. This course meets the state standards and fulfills the physical science requirement needed for graduation.

Length: Year-long period

Grade: 9

Prerequisite: None

Fee: \$10

Physical Science Honors A and B ▲ (S100HA & S100HB)

Credit: .5 credit per semester This course includes (A) an introduction to chemistry and matter, and (B) motion, energy, electricity, and the universe. Students will conduct research and higher level laboratory investigations to understand these topics. This course meets the state standards and fulfills the physical science requirement needed for graduation. A summer project is a required component of this course.

Length: Year-long period

Grade: 9

Prerequisite: Assessment and departmental permission

Fee: \$10

**Biology A and B ▲**

(S200XA & S200XB)

Credit: .5 credits per semester
Length: Year-long period
Grade: 10
Prerequisite: Physical Science
Fee: \$12

Biology investigates the composition, diversity, complexity, and interconnectedness of life on Earth. This course is an introduction to the fundamental principles of Biology including the structure and function of cells, cell processes, genetics, biotechnology, evolution, biodiversity, and interdependence of life. Biology meets the Ohio Department of Education graduation requirement for life science.

Biology Honors A and B ▲

(S200HA & S200HB)

Credit: .5 credit per semester
Length: Year-long period
Grade: 10
Prerequisite: Physical Science Honors and/ or teacher recommendation
Fee: \$15

Biology investigates the composition, diversity, complexity, and interconnectedness of life on Earth. This course is an introduction to the fundamental principles of Biology including the structure and function of cells, cell processes, genetics, biotechnology, evolution, biodiversity, and interdependence of life. Honors students will conduct independent research and produce a formal lab report quarterly, as well as experience a more in-depth study of Biological concepts. Honors Biology meets the Ohio Department of Education graduation requirement for life science.

Anatomy & Physiology ▲

(S500)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11-12
Prerequisite: Physical Science and Biology
Fee: \$14

This course is a system-by-system study of the structures and functions of the human body. Related pathology and careers will be explored through projects. Dissection is a major component of the laboratory experience which prepares students for continuing education in sciences or the medical field. The instruction in this course is for any student.

Anatomy & Physiology for CTC ▲

(S510)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11-12
Prerequisite: Physical Science or Honors and Biology or Honors and must be enrolled in a CTC program
Fee: \$14

This course is a system-by-system study of the structures and functions of the human body with an emphasis on pathology, health care, and related fields. Dissection is a major component of the laboratory experience. The instruction in this course is designed to complement career and technical programs. This course is required for students in the Medical Academy and recommended for students in Cosmetology, Criminal Science, and Culinary Arts programs.



Anatomy & Physiology Honors ▲

(S500H)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: Physical Science Honors, Biology Honors and teacher recommendation

Fee: \$14

In addition to the course description for Anatomy and Physiology, this course involves a more in-depth understanding of the major processes of the human body. Dissection is a major component of the laboratory experience. Research of scientific literature prepares students for continuing education in advanced scientific or medical fields.

Biology II ▲

(S202)

Credit: .5 credit per semester

Length: Year-long period

Grades: 11-12

Prerequisites: Physical Science and Biology

Fee: \$15

Biology II is a survey of living organisms within the framework of a seven-kingdom classification system. Topics covered in this course include classification, bacteria, protozoa, chromists, fungi, plants, invertebrate animals, and vertebrate animals. Major emphasis is placed on structure and function of living organisms. Dissection labs are a part of this course.

Chemistry ▲

(S401)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisites: Physical Science and Biology and a "C" or better in Algebra I; should be taken concurrent with Algebra II or higher level math class

Fee: \$15

Chemistry examines the physical interactions of matter and subsequent events that occur in the natural world. This course is an introduction to basic principles of chemistry including atomic structure, the periodic table, chemical bonding, compounds, intermolecular forces, chemical reactions, gas laws, and stoichiometry. Lab work is part of this course. Chemistry is strongly recommended for students pursuing a science or medical career field.

Chemistry Honors ▲

(S401H)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: Physical Science Honors and Honors Biology and/or teacher recommendation and a "C" or better in Algebra I

Fee: \$15

Chemistry examines the physical interactions of matter and subsequent events that occur in the natural world. This course is an introduction to basic principles of chemistry including atomic structure, the periodic table, chemical bonding, compounds, intermolecular forces, chemical reactions, gas laws, and stoichiometry. Lab work is part of this course. Chemistry is strongly recommended for students pursuing a science or medical career field. This course will emphasize in-depth use of algebraic skills.



AP Chemistry A and B ▲

(S400AA & S400AB)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: Chemistry or Honors Chemistry and/or teacher recommendation and a "C" or better in Algebra I

Fee: \$20

The Advanced Placement (AP) program is sponsored by The College Board and provides an opportunity for high school students to receive credit for college level course work. This course is intended for students who have a strong background in both chemistry and math. It is recommended that students have a firm knowledge of moles, equations, and stoichiometry before enrolling in this course. New topics in AP Chemistry include thermochemistry, solution chemistry, acid-base chemistry, equilibrium, kinetics, electrochemistry, and nuclear/organic chemistry. Material from Chemistry will be reviewed, as needed, for successful completion of the AP exam. Students will be encouraged to take the AP Chemistry exam in May and may receive college credit with successful completion of the exam.

Required Summer Project: Students will be required to complete a summer assignment.

Environmental Science ▲

(S700)

Credit: .5 credits per semester

Length: Year-long period

Grade: 11-12

Prerequisite: Physical Science and Biology

Fee: \$10

Earth systems, earth resources, and global environmental problems and issues are the topics that will be covered in this course. Environmental science incorporates biology, general physical science, and Earth science. Students are introduced to principles and theories within environmental science. Organizational skills are helpful for this course.

Physical Geology ▲

(S710)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: Physical Science and Biology

Fee: \$8

Physical Geology examines earth materials, changes in the earth's surface and interior, and the forces that cause these changes. Specific topics covered in this course include minerals, rocks, topographic maps, weathering, erosion, plate tectonics, geologic time, glaciers, and earth resources. Lab work is a part of this course.

Physics ▲

(S600)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: Physical Science and Biology and a "C" or better in Algebra I and Geometry

Fee: \$12

Physics is the mathematical science of matter and motion and is taught in a problem-solving method. This course is a study in measurement, motion, forces, work, waves, electromagnetism, and simple mechanics. A variety of labs will be performed to explore the principles of physics. Some of the necessary mathematics will be included in the classroom presentation. Science and engineering majors are encouraged to take Physics. It is strongly recommended that students taking this course have earned a grade of "C" or higher in Algebra I and Geometry.



Physics Honors ▲**(S600H)****Credit:** .5 credit per semester**Length:** Year-long period**Grade:** 11-12**Prerequisite:** Physical Science and Biology and/or teacher recommendation and a "C" or better in Algebra I and Geometry**Fee:** \$12

Physics is the mathematical science of matter and motion and is taught using a problem-solving method. A variety of labs will be performed to explore the principles of physics. This honors course in physics involves a more in-depth use of mathematics and the derivation of physics equations. Students planning on pursuing a science or engineering career will find this to be an essential course.

▲ Denotes an NCAA approved course.



SOCIAL STUDIES

The Social Studies Department is committed to preparing our students to be global citizens who are able to apply an understanding of the past to current events and to recognize and respect different points of view. The following courses emphasize the cultural and historical changes in various societies and civilizations. This provides students with an historical understanding utilizing cause and effect, interpretative skills, and factual evidence to comprehend the route history has taken. Students are required to earn credit in American History, World History, and American Government.

Grade	Standard Sequence of Courses	Honors Sequence of Courses
9	World History A & World History B	World History Honors A & World History Honors B
10	American History A & American History B	American Honors A & American History Honors B
11 and/or 12	American Government	AP American Government & Politics
Electives	Choice of: Ancient Civilizations Economics Financial Literacy Frontier America Introduction to Sociology & Psychology The 60's-Turbulent time of Change in America World War II	Choice of: AP European History AP United States History Psychology Honors Sociology Honors

World History A & B ▲

(T200XA & T200XB)

Credit: .5 credit per semester

Length: Year-long period

Grade: 9

Prerequisite: None

World History is the required freshman level social studies course. World History is designed to provide students with a survey of world events from 1600 to the present. Students will examine how revolutions, world wars, and modern conflicts led to world domination by European powers. In addition, it will focus on ideas that led to independence movements and the effects of global interdependence. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw informed conclusions.

**World History Honors A & B ▲**

(T200HA & T200HB)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9
Prerequisite: Assessment and department permission

World History is the required freshman level social studies course. This course is designed for students demanding an intensive study of the major political, economic, social, literary, and artistic developments in the human experience from 1750 to the present. Students will make connections between the events of the past and the historical trends of today as they consider the influence of geographic settings, cultural perspectives, economic systems, and various forms of government. Besides Europe, this course will examine Africa, Asia, and Latin America as forces that influence the world. The integration of additional readings, primary source research, data analysis, written and oral analysis, individual and group projects, and in-class presentations will be emphasized for the development of critical thinking skills. Students will be required to take an entrance examination during the 8th grade year to determine placement in this course.

Required Summer Project: Students are required to complete a summer reading and a semester research project will be required as part of the course.

American History A & B ▲

(T100XA & T100XB)

Credit: .5 credit per semester
Length: Year-long period
Grade: 10
Prerequisite: None

American History is the required sophomore level social studies course. This course examines American history from 1877 to the present. Students review historical issues and documents in America by examining the social, political, and economic cause and effect relationships of major historical events. Students will receive instruction in basic governmental operations and social studies skills.

American History Honors A & B ▲

(T100HA & T100HB)

Credit: .5 credit per semester
Length: Year-long period
Grade: 10
Prerequisite: Departmental permission

American History is the required sophomore level social studies course. This course is designed for students with advanced reading and writing skills who are seeking an in-depth study of American history from 1877 to the present. Analytical writing and research with primary sources will be emphasized. Successful completion of this course will lay a solid foundation for enrollment in AP United States History.

Required Summer Project: Students are required to complete a summer reading and a semester research project will be required as part of the course.

American Government A & B ▲

(T300XA 7 T300XB)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11
Prerequisite: None

This course is designed to build awareness of how the American people govern themselves at national, state, and local levels. Students can impact issues addressed by local governments through service learning. Students are expected to watch or read the news for awareness on current events. This course is required for graduation.



AP American Government & Politics ▲

(T300A)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11

Prerequisite: Honors track in Social Studies and/or teacher recommendation

This Advanced Placement (AP) course is sponsored by the College Board and provides an opportunity for high school students to pursue and receive college credit. This college level course will provide students with an intensive analytical study of American Government including political systems, citizenship, politics, current events, and involvement in community service projects. Students are encouraged to register to take the AP Exam in American Government and Politics given in May.

Ancient Civilization ▲

(T570)

Credit: .5 credit per semester

Length: Year-long period

Grade: 9-12

Prerequisite: None

This course is an in depth study of the great civilizations of the ancient world through the rise of the Middle Ages and the emergence of the European world after the fall of the Roman Empire. Emphasis will be placed upon the development of civilization, leadership/governance, culture, innovation, architecture, mythology/religion, and warfare in Egyptian, Greece, Rome, Aztec, Incan, Mayan, Greco-Roman, and Medieval civilizations. In addition, an examination of lost civilizations and theories of their collapse will also be explored.

Economics ▲

(T530)

Credit: .5 credit per semester

Length: Year-long period

Grade: 10-12

Prerequisite: None

This course is designed to give the students a greater understanding of economics through developing a consumerist mindset within an economic system. They will understand the different economic systems, and how each system interacts and competes with each other. Students will study governmental actions, global trade, and different economic systems (traditional, market, command, and mixed). They will be able to identify the nature of, changes in, and elasticity of supply and demand. This course will also explore personal finance through the use of budgeting, stock market simulations, credit scores, and different banking accounts. The goal is that students become fiscal stewards making financially sound decisions as a consumer.

Financial Literacy

(T700)

Credit: .5

Length: Semester period

Grade: 9-12

Prerequisite: None

This course is designed to empower students to make sound financial decisions for life as they prepare to engage with and contribute to the "real world". Student skill development will focus on both personal finance and economics. It will help students understand essential financial literacy concepts and skills they must possess to be an informed consumer in life after high school. Topics include: financial responsibility and decision-making, careers, income, taxes, banking, investing, credit and debt, as well as insurance. This course will be geared toward the Ohio Department of Education Economic and Financial Literacy Standards and will satisfy the Financial Literacy graduation requirement.

**Frontier America ▲**

(T540)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: None

This course is designed to look at the time of growth of the early American nation. Questions as to how democracy forms in America and how geography plays a role in creating unique American culture are considered. Topics to be studied include the importance of United States geography, Native American history of culture and conflict, the immigrant story, surviving the rugged frontier as a settler, and the role of the cowboy, outlaws, and lawmen.

Introduction to Psychology & Sociology ▲

(T400)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: None

This is an introduction to the behavioral sciences with an emphasis on psychology and sociology. In psychology, students will inspect aspects of personality and social behavior to help describe, understand, predict, and control behavior. In sociology, students will focus on patterns of group behavior highlighting culture, family, and race/ethnicity. This course is recommended for those who are college-bound.

The 60's –Turbulent Time of Change for America ▲

(T550)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11-12
Prerequisite: None

This course is designed to take an analytical look at the era of greatest social, political, and demographic change our country has experienced. These changes can be seen to still have an impact in America today. Students will study the Baby Boomer Generation, the growth of the teenager era, the history of Rock and Roll, the Vietnam War, the Kennedy assassination, the Civil Rights Movement, and the Space Race. Some assignments include writing your own rock/protest song and solving the Kennedy murder.

World War II ▲

(T600)

Credit: .5 credit per semester
Length: Year-long period
Grade: 11-12
Prerequisite: None

With 60-80 million people being destroyed between 1939-1945, World War II was the most destructive period of human history. This course examines the causality of wars, the rise of dictators, the role of technology, the successes and mistakes of battle strategies, and WW II's continuing impact on today's world. Whether it's an examination of Hitler's bizarre early childhood to debating the necessity of a modern-day draft, or questioning whether or not the U.S. could have stopped Pearl Harbor or even prevented the mass murder of millions in the Holocaust, this course asks the questions a normal history class does not have time to answer.



AP European History ▲

(T200A)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: American History and World History

The Advanced Placement (AP) program is sponsored by The College Board and provides an opportunity for high school students to receive credit for college level course work. AP European History focuses on developing students' abilities to think conceptually about European history and interactions in the world from approximately 1450 to the present by applying historical thinking skills as they learn about the past. The course will focus on five themes including the interaction of Europe and the world, poverty and prosperity through the rise of global commerce, knowledge and visions of humanity through the development of philosophical ideas, the rise of countries and institutions of power, and the emergence of individual rights in society themes. Students are encouraged to participate in the AP Exam in given in May.

Required Summer Project: Students are required to complete a summer research activity.

AP United States History ▲

(T100A)

Credit: .5 credit per semester

Length: Year-long period

Grades: 11-12

Prerequisite: American History and World History

This Advanced Placement (AP) program is sponsored by the College Board and provides an opportunity for high school students to pursue and receive college credit. This college level course will provide students with an intensive study of American history through a variety of themes from the colonial period to the present. Students are highly encouraged to register for the AP Exam in United States History given in May.

Required Summer Project: Summer reading will be required.

Psychology Honors ▲

(T410H)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: None

This course explores the dynamics of human behavior. Areas of study include memory, bio- psychological foundations, conditioning, learning, and psychological disorders. Students complete a research project concerning psychological disorders that includes a guided research paper and presentation. Students who are college-bound will find this class especially beneficial. A college-level textbook is used.

Sociology Honors ▲

(T420H)

Credit: .5 credit per semester

Length: Year-long period

Grade: 11-12

Prerequisite: None

This course includes the study of group patterns of behavior including diverse social issues and education. This course has a social justice perspective with emphasis on oppression and discrimination while examining issues of social-class and race/ethnicity. Students complete a research project concerning a current issue of discrimination that includes a guided research paper and presentation. Students who are college-bound will find this class especially beneficial. A college-level textbook is used.

▲ Denotes an NCAA approved course.



WORLD LANGUAGES

Research proves that there is correlation between learning a second language and ACT/SAT scores, the ability to hypothesize in science, improved memory, and even spatial ability. To spare you from lots of research and data, suffice it to say that you will benefit academically and socially from learning a second language. At Whitmer High School, students walk out of the World Languages classrooms able to understand and speak in French, German, and Spanish. Each curriculum embraces a broad spectrum of skills with emphasis on communication, cultures, connections, comparisons, and communities.

French I A and B ▲

(F101XA & F101XB)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: None
Fee: \$7

Bonjour, bienvenue! Welcome to the exploration of French, the language of love. Through vocabulary that introduces you to everyday interactions of this exciting language, you will learn to speak, read, write, and understand the basics of this beautiful language and the people who live it.

French II ▲

(F102)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: French I
Fee: \$7

Encore! Encore! In French II, we review and expand our French I skills. We learn vocabulary through story-telling and interactive activities through the use of various media and the internet.

French III ▲

(F103)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: French II
Fee: \$7

This class offers opportunities to develop further language skills in reading, writing, and conversations through the use of storytelling, projects, videos, skits, and hands-on activities.

French IV ▲

(F104)

Credit: .5 credit per semester
Length: Year-long-period
Grade: 9-12
Prerequisite: French III and teacher recommendation
Fee: \$7

This course emphasizes communication in real-life situations. Students will engage in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products, practices, and perspectives.

**German I A and B ▲**

(F201XA & F201XB)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: None
Fee: \$7

Would you like to tour castles? See beautiful landscapes? Make friends in Europe? Work for BMW or Porsche? Learning German at Whitmer is your ticket to opportunities now and in the future. But it all starts with simple stories, songs, chants, drawing, and acting in German I - a lot like how you learned English as a kid. You'll be speaking German faster than you can say "Hallo!"

German II ▲

(F202)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: German I
Fee: \$7

After German II, you will now be able to speak enough German to live with a host family or travel comfortably in German-speaking countries - all while having more fun with stories, acting, chants, and songs.

German III ▲

(F203)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: German II
Fee: \$7

In German III you will learn how to talk more freely about your feelings, ideas, and experiences. You'll be able to understand German conversations, TV, and books made for Germans, not just for the classroom. Your German will be more fluent and accurate. You'll be ready for AP. You probably will test out of some college language requirements and place into the more interesting college German courses, preparing you for a lifetime of international travel and work.

German Language & Culture AP ▲

(F204A)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: German III and teacher recommendation
Fee: \$7

The Advanced Placement (AP) program is sponsored by The College Board and provides an opportunity for high school students to receive credit for college level course work. The course emphasizes communication in real-life situations. Students will engage in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products, practices, and perspectives.

Required Summer Project: Students are required to complete a summer project which will complement and start developing skills needed for success on the AP exam.

**Spanish I A and B ▲**

(F301XA & F301XB)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: None
Fee: \$7

The first year journey will consist not only of the fundamentals of reading, writing, speaking, and understanding, but will also offer students a glimpse into the various cultures of Spanish-speaking countries. Through storytelling and physical involvement, communication in Spanish will become a reality.

Spanish II A and B ▲

(F302XA & F302XB)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: Spanish I
Fee: \$7

Storytelling, hands-on activities, creative projects, colorful videos, CD interaction, interactive classroom activities, and the internet will help you begin to master the fundamentals of speaking, listening, reading, and writing in Spanish. After all, it's a must; Spanish is one of the most commonly spoken languages in the world!

Spanish III ▲

(F303)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: Spanish II
Fee: \$7

¡Olé! You have arrived. You will continue to develop skills through the interpersonal, presentational, and interpretive modes. You will interact in a variety of ways exploring the Spanish-speaking countries in-depth through the 5 C's of world language learning: communication, communities, comparisons, connections, and cultures. A little dancing, singing, and role-playing will enhance the experience!

Spanish Language & Culture AP ▲

(F304A)

Credit: .5 credit per semester
Length: Year-long period
Grade: 9-12
Prerequisite: Spanish III and teacher recommendation
Fee: \$7

The Advanced Placement (AP) program is sponsored by The College Board and provides an opportunity for high school students to receive credit for college level course work. The course emphasizes communication in real-life situations. Students will engage in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products, practices, and perspectives.

Required Summer Project: Students are required to complete a summer project which will complement curriculum and help develop the necessary skills for success on the AP exam.

▲ Denotes an NCAA approved course.