

# Monroe High School

2020-2021



**Program of Studies**  
**(Course Description Booklet)**

# Table of Contents

<a href="#">Program of Studies (Introduction)</a> .....	2
<a href="#">Monroe H.S. Scheduling Guidelines &amp; Schedule Changes</a> .....	3
<a href="#">Class Rank &amp; Weighted Grades</a> .....	4
<a href="#">Grading Scale &amp; Credit for Courses</a> .....	6
<a href="#">Educational Options - Guidelines</a> .....	7
<a href="#">Exemption of Physical Education Credit</a> .....	8
<a href="#">CCP</a> .....	9
<a href="#">Athletic Eligibility Requirements</a> .....	10
<a href="#">NCAA Requirements/NAIA Requirements</a> .....	11
<a href="#">Suggested Patterns of Preparation for College</a> .....	12
<a href="#">Graduation Requirements Class of 2021</a> .....	13-14
<a href="#">Graduation Requirements Class of 2022</a> .....	15-16
<a href="#">Graduation Requirements Class of 2023</a> .....	17-19
<a href="#">Graduation Requirements Class of 2024</a> .....	20-22
<a href="#">Industry Recognized Credentials</a> .....	23
<a href="#">State Approved Criteria for Diploma with Honors</a> .....	24
<a href="#">Early Graduation Guidelines</a> .....	25
<a href="#">Course Descriptions</a> .....	26
<a href="#">Computer Technology &amp; Business Education</a> .....	27-28
<a href="#">Language Arts</a> .....	29-33
<a href="#">Mathematics</a> .....	34-37
<a href="#">Music</a> .....	38-40
<a href="#">Physical Education and Health</a> .....	41-42
<a href="#">Science</a> .....	43-46
<a href="#">Social Studies</a> .....	47-50
<a href="#">Visual Arts</a> .....	51-53
<a href="#">World Languages</a> .....	54-55
<a href="#">Butler Tech &amp; Career Development Programs</a> .....	56-58
<a href="#">Butler Tech – College Tech Prep Program</a> .....	59

# Program of Studies

## (Introduction)

Guiding a student in choosing a program of study is one of the most important tasks that all stakeholders in the educational process have. This booklet will help students plan their own program of study. Read all of it carefully before making any decisions. Many pathways of preparation are available. Some students may want to combine various pathways in order to be prepared for more than one plan after high school.

The first part of the booklet includes the Program of Studies section so that parents and students can plan the most effective educational program from the many course offerings of the Monroe Local School District's curriculum.

The second section of this booklet contains an introduction to the subject area departments, descriptions of each course offered by that department, course prerequisites, course fees, and other relevant information. A table of contents is provided to assist the reader in finding desired information.

School counselors, the curriculum director, and teachers are available to further explain and clarify this booklet's information. Counselors will schedule meetings with students to assist in the selection of subjects to be studied. Parents will be encouraged to work with students and their counselors in career planning. A part of this process may include aptitude and achievement test score interpretation. Parents and Students are free to contact the Counseling Office with any questions or concerns.

We sincerely hope that all students will be able to plan beneficial educational pathways in our school and will find these materials helpful in guiding each student in preparing for their future.

- **Sheryl Stenger (School Counselor): Grades 9-12, Letters A-K**
  - [sstenger@monroelocalschools.com](mailto:sstenger@monroelocalschools.com)/ 539-8471 X 1127
- **Dara Laforest (School Counselor): Grades 9-12, Letters L-Z**
  - [dlaforest@monroelocalschools.com](mailto:dlaforest@monroelocalschools.com)/ 539-8471 X 1126
- **Carrie Long (School Counselor): Grades 9-12, Assessment Coordinator**
  - [clong@monroelocalschools.com](mailto:clong@monroelocalschools.com)/ 539-8471 X 1120
- **Tom Prohaska (Principal)**
  - [tprohaska@monroelocalschools.com](mailto:tprohaska@monroelocalschools.com) / 539-8471

## Course Scheduling Guidelines

**All students in grades 9-12 are required to register for a full schedule of coursework.** No senior may graduate early unless credit requirements and all graduation requirements have been met. In addition, any student who plans to graduate early must follow the directions on page 20 of this book.

As the 2020-2021 scheduling process begins, the counseling staff would like both parents and students to be aware of the scheduling procedure and encourage a joint partnership in this process. The process is outlined below:

- Teacher Talk Day (core classes are recommended by teachers)
- Elective Course Selections (including foreign language classes)
- Online Scheduling (students enter course selections into online scheduling system)

## Schedule Change Guidelines

### **For the beginning of each school year:**

A student has the potential to change the academic level (AP/Honors/Academic/General) of an English, Math, Science or Social Studies course or drop a foreign language course without academic penalty **between the 5th and 10th day of school.**

**Schedule Changes for Core Academic Subjects:** In order to allow time for proper planning, students and parents are asked to make course choices well in advance of the next school year. These choices are finalized on the basis of thorough student, teacher and parent consultation, examination of the course booklet, and opportunities for student-counselor-parent conferences.

### *Procedures are as follows:*

- **Drop/add form** ([click here for form](#)) must be obtained from the teacher of the course he/she is desiring to drop. All parts of the form must be completed in order to request a change of any kind.
- The completed form must be given to the Counseling Office between days 5-10 of school.
- The grade the student currently has in the English, Math, Science or Social Studies course **WILL** follow him/her to the course in which they transfer.
- The counselors will review the student's current schedule to see if the proposed switch can be made.
- The counselor will meet with the student to discuss scheduling options.
- Once options have been discussed, then the form will be given to an administrator for review and a final decision will be made.

After the 10th day of school, students may potentially change academic levels of an English, Math, Science or Social Studies course using the following guidelines:

- Students must follow the same drop/add form procedures as outlined above.
- A switch may only take place at the end of a semester.

## 2nd Semester Schedule Changes

Schedule Changes for Electives other than Foreign Languages:

- Students will be given a one week window prior to Winter Break to email their counselor to request a schedule change.
- If a student has chosen an elective on their course selection sheet, he/she may not change this course for another elective. He/she may ask to be placed in a Study Hall, if space is available.
- If a course is on a student's schedule and it was not chosen, he/she may ask to be placed in a Study Hall or another available elective.
- A student may not have more than one study hall per semester

If a student is thinking of changing a core subject or a foreign language:

- Students must obtain the drop course form ([click here for form](#)), complete all parts of the form, and provide it to their counselor by a given deadline.
- The form will be reviewed by the counselor and the administration. Then a decision will be made. See the form for further information.

**All athletes who participate in any athletic team must have 5 (.5 credit) courses each semester. The following courses do not qualify in this total of 5: PE, Team & Life Sports, Weight Lifting, Aide, Study Hall and Resource.** If you do not have 5 courses or the equivalent, you will not be eligible to participate. You may find the OHSAA guidelines at: <http://ohsaa.org/Portals/0/Eligibility/OtherEligibilityDocs/EligibilityGuidelinesGuidanceCounselors.pdf>

## Class rank

The following procedure will be followed for calculating class rank:

- Each quarter grade will be valued using the following numbers:
  - A = 4 points
  - B = 3 points
  - C = 2 points
  - D = 1 point
- Each semester grade is converted to its equivalent value (4, 3, 2, or 1).
- Each student will receive an additional .025 points per semester for completion of the following classes:
  - *Honors English I, II and III, Honors Physical Science, Honors Biology, Physics, Honors Geometry, Honors Algebra II, Honors Pre – Calculus, Calculus, Honor World Studies, and Honors American History*
- Each student will receive an additional .05 points per semester for completion of the following classes:
  - *AP Government, AP US History, Dual Enrollment Anatomy-Physiology, Dual Enrollment Spanish IV, Dual Enrollment English, and AP Calculus*

## Weighted Grade Administrative Guidelines for Transfer Students

When a student enters Monroe High School from another district, students will receive weighted credit using the below criteria:

- The student will receive weighted credit for any AP, Dual Enrollment, CCP and/or Honors/Advanced course if the course is offered during the same year which Monroe offers it. For example, 2020-21 school year Monroe offers Honor English II and the transfer student took Honors English II during the same year at his/her previous school.
- The weight added to a particular course on the student's new Monroe transcript would follow Monroe's weighted policy for the year the course was taken at the previous school.
- Weighted credit will not be given for any AP/Honors course which Monroe does not offer at the time the course was taken by the student at the previous school.
- In regards to class rank and weighted credit for transfer students: All AP/Honors courses and College Credit Plus courses which a student received weighted credit for will be added into their GPA for class rank purposes in accordance with MLS Class rank Policy.

## Awarding of Credit for Courses

- Year-Long Courses: Students will be awarded  $\frac{1}{2}$  credit at the end of each semester when achieving a grade of D or higher.
- CCP Courses: If a CCP course is worth 3 or more college credits, the student will receive 1 high school credit at the completion of the course, when achieving a D or higher. If it is less than 3 college credits, the college credits convert proportionally.
- CCP/Dual Enrollment Courses: Students will be awarded 1 credit for each semester, when achieving D or higher. CCP courses taken over the summer will be awarded credit at the end of the "Fall Semester".
- AP courses: Students will be awarded  $\frac{1}{2}$  credit at the end of each semester when achieving a grade of D or higher.
- Semester-long courses: Students will be awarded  $\frac{1}{2}$  credit at the completion of the course, when achieving a D or higher, except for PE courses. PE courses are awarded  $\frac{1}{4}$  credit at the end of a semester course.
- A student's Cumulative GPA is recalculated at the end of each semester. Only final grades are calculated into a student's CUM (Cumulative) GPA.

## Monroe Local Schools District Grade Scale

Letter	Percent	Quality Points
A	100 - 93	4.00
A-	92.9 - 90	3.67
B+	89.9 - 87	3.33
B	86.9 - 83	3.00
B-	82.9 - 80	2.67
C+	79.9 - 77	2.33
C	76.9 - 73	2.00
C-	72.9 - 70	1.67
D+	69.9 - 67	1.33
D	66.9 - 63	1.00
D-	62.9 - 60	0.67
F	Below 60	0.00

**Credits will be earned on a semester basis:**

Quarters will each carry a **40%** weight and the exam **20%** to determine the final grade.

**1<sup>st</sup> Q = 40%**      **2<sup>nd</sup> Q = 40%**      **Exam = 20%**

Passing grades must be achieved in at least 2 of 3 grades in the semester (each quarter and semester exam).

[Click here to view detailed instructions on how to calculate grades.](#)

## Educational Options - Guidelines

The Board of Education recognizes the need to provide alternative means by which students achieve the goals of the district. Educational options are learning experiences or activities that are designed to extend, enhance, supplement or serve as an alternative to classroom instruction. Such options include:

- **CCP (College Credit Plus)** – college courses for high school credit.
  - All guidelines are required in order to participate in this option.
  - Dual Enrollment – college level courses offered at Monroe High School through a local university. Students enrolled in these courses receive high school credit and can receive college credit.
- **Online Learning Options** – courses are available under special circumstances, and with
  - approval of the school counselor and administrator
- **Credit Flexibility** - Credit Flexibility Plans (CFP) are educational experiences where the
  - primary acquisition of knowledge and skills takes place outside of Monroe High School's
  - (MHS) classrooms. Please refer to the district website or the counseling office for more information.
- **Early Graduation** - [Early Graduation Packet](#)
- **Correspondence Course** - systematic instruction by mail or electronic media between a pupil and instructor in accordance with board policy.
- **Educational Travel** - an educational activity involving travel in accordance with board policy under the direction of a person approved by the board and parent.
- **Mentor Program** - an educational activity including advanced or in-depth work by an individual pupil in accordance with board policy under the direction of a non-certificated or certificated individual. Mentors shall be individuals selected in accordance with board criteria and subject to parent approval.
- **Tutorial Program** - an educational activity involving work by an individual pupil
  - Under the direction of a certificated teacher in accordance with board policy.
- **Independent Study** - an educational activity involving advanced or in-depth work by
  - An individual pupil under the direction of a certified member of the school staff in accordance with board policy.

To participate, all students involved in an educational options program must complete the appropriate form.

**Please contact the principal for more information on these educational options at 539-8471.**



## Exemption of Physical Education Credit

Students in the Monroe Local School District who successfully complete two full seasons of interscholastic athletics, marching band, or cheerleading may be excused from the high school physical education requirement. *Two full seasons* is defined as two separate sports seasons for all interscholastic sports. For Example: One sports season equals one half of PE requirement for interscholastic sports. The “two full season” requirement must be completed by the student’s junior year to eliminate the possibility of seniors being caught in a position of lacking physical education requirements.

Those students excused from the high school physical education requirement are still required to earn 23 credits for graduation from the Monroe Local School District.

### Process for exemption:

- Students must complete the registration form prior to beginning **their season(s) of participation. The registration form is part of the required pre-participation forms located on Final Forms. Final Forms is our student-athlete registration program that each student must complete prior to athletic participation can be accessed at: <https://monroe-oh.finalforms.com>**
- At the end of the sports season (no later than a week after the last game/ match/ competition), the athletic office/ band director will work with the coaches/ advisors to verify that a season has been successfully completed.
- Upon verification, the athletic office/ band director will send forms to counselors for transcript records.
- A form must be completed only once per school year declaring the student’s intent to seek exemption from physical education, unless the student’s intent change during the course of the school year. If that occurs, it is the responsibility of the student to update their intent in Final Forms.

## College Credit Plus (CCP) - College Courses for High School Credit

Ohio's College Credit Plus program helps students earn high school and college credit by taking college courses through colleges and universities during the Monroe School District's school year. These include dual enrollment courses offered at Monroe High School, courses students take at an actual university and online. The purpose of this program is to promote rigorous academic pursuits and to provide a wide variety of options to college-ready students.

### CCP Questions & Answers

- Ohio students in grades 7-12 can apply for College Credit Plus admission to any Ohio public or participating private college. The college will determine your eligibility and admit you based on your college-readiness in one or more subject areas.
  - Eligibility and college readiness score information can be found at:  
[https://www.ohiohighered.org/sites/ohiohighered.org/files/uploads/CCP/CCP\\_Student-Eligibility-flowchart\\_2018-2019\\_101717.pdf](https://www.ohiohighered.org/sites/ohiohighered.org/files/uploads/CCP/CCP_Student-Eligibility-flowchart_2018-2019_101717.pdf)
- Taking a college course from a public college or university College Credit Plus is free to the student. That means no cost for tuition, books or fees. If you choose to attend a private college or university, the student may have limited costs.
- All CCP courses are included in a student's high school transcript. All CCP courses will be computed into a student's GPA and will receive the same weighted scale as AP courses at Monroe.
- College credits earned through CCP courses are not guaranteed to transfer to other colleges and universities. Each individual college determines which courses they will accept credit for.
  - Many public universities in Ohio accept CCP college credit awarded through other Ohio public universities. Check out Ohio Transfer To Degree Guarantee for more info:  
<https://transfercredit.ohio.gov/ap/1>
  - Out-of-state institutions and private colleges which a student is seeking to attend will evaluate credit earned through CCP courses on a case-by-case basis. The student should contact the institution to find out if credit is awarded.
- High school graduation requirements will not be waived as a result of participation in College Credit Plus. Students must meet all graduation requirements in order to graduate on time.
- Classes failed or withdrawn with an "F" will receive an "F" on the high school and college transcripts and will be computed into the high school and college GPA.
- Students who leave Monroe High School early to take CCP courses through a college or university may not be able to fit all of their requested/required courses into their Monroe High School class schedule. The Monroe High School master schedule is built to best accommodate all student course requests, which may not provide the opportunity for CCP students to have all of the courses they requested.

For more information on CCP please visit Ohio Higher Education's website at:

<https://www.ohiohighered.org/ccp>

If you participate in **ANY** Athletic teams you **MUST** have 5 (.5 credit) courses each semester or the OHSAA equivalent. You may find these guidelines at

<http://ohsaa.org/Portals/0/Eligibility/OtherEligibilityDocs/EligibilityGuidelinesGuidanceCounselors.pdf>

Considering CCP? [Click here for additional information on CCP rules and guidelines.](#)

## Athletic Eligibility Requirements

- A student who does NOT achieve a **1.75 grade point average in the previous quarter will be ineligible** to participate in extracurricular activities during that quarter.
  - If at the end of the quarter a student achieves a 1.75 grade point average or above, the student will be eligible to participate during the following quarter. Beginning in grade seven, students are exempt from this rule for the first quarter only; however, the policy will apply to all students in each remaining quarter of junior/senior high school.
- The **Ohio High School Athletic Association** requires that a student must have received passing grades in a minimum of **five (1 credit courses)**, or the equivalent in the immediately preceding grading period in order to be eligible to participate.
  - **A student MUST be enrolled in and earn passing grades in a minimum of five (1 credit courses or the equivalent) each and every grading period to have continuing eligibility.**
  - **Note:** Physical Education courses, Resource courses, and study halls are not a 1-credit or equivalent course.
  - CCP courses taken during a summer term do not count towards athletic eligibility.
- Students electing to enroll in CCP must:
  - Provide confirmation of their current grades to the Athletic Director as of the date of Monroe Local Schools end of quarter. CCP students should be certain that the faculty members at the college/university understand that they will need to provide grades or a progress report at the time when the **high school's grading period** is over regardless of the college's academic calendar.
    - For Example: If Monroe High School's 1st quarter ends on October 13th, students must provide evidence of passing grades in all CCP courses as of October 13th regardless of the college/university's academic calendar.
  - Take enough coursework at the college/university exclusively or between the college and the high school combined to be equivalent to five one-credit courses.

## NCAA Requirements

If you are planning to participate in collegiate athletics, please make sure you meet with your school counselor and/or Athletic Director for specific requirements.

The minimum of 16 is the number of required number core courses. GPA is based on a minimum grade point average in a successfully completed core curriculum that includes at least 16 core courses in the following areas:

English	4 years
Mathematics	3 years (Algebra I and above)
Natural/Phys. Science	2 years (including at least one laboratory course)
Social Studies	2 years

Additional courses in: English, Mathematics, or Physical Science - 1 year.

Additional Academic Courses: 4 years in any of the above areas or world language, philosophy, or non-doctrinal religion (e.g. comparative religion courses).

Students must have a core-course grade-point average (based on a maximum of 4.0) and a combined score on the SAT verbal and math sections or a sum score on the ACT based on the qualifier index scale. Senior athletes need to see the school counselor regarding the NCAA Clearinghouse requirements. NCAA guides are available in the counseling office. The NCAA website is: [www.ncaa.org](http://www.ncaa.org).

## NAIA Eligibility

The NAIA Eligibility Center will determine your eligibility based on your academic record and additional information you provide.

### High School Students

If you will graduate from high school this spring and enroll in college this coming fall, the requirements are simple. High school graduation, plus two out of three of these requirements

- Achieve a minimum overall high school GPA of 2.0 on a 4.0 scale.
- Graduate in the top half of your high school class.
- Achieve the NAIA's minimum test score requirement: 18 composite score on the ACT for tests taken before March 2016\*, 860 on the SAT (Evidence-Based Reading and Writing & Math)

\*EXCEPTION: Per NAIA Bylaws V.C.2a, "For ACT tests taken beginning March 2016, a minimum score of 16 will satisfy this requirement. This exception will apply through the 2018-19 academic year, after which time the exception will expire."

### Early Decisions for High School Seniors

Students who have completed their junior year of high school with an overall 3.00 GPA on a 4.00 scale OR students who have completed the first half of senior year with an overall 2.5 GPA on a 4.00 scale, plus meet the NAIA's minimum ACT or SAT test score requirements, may receive an eligibility decision prior to high school graduation. To receive an early decision, register with the NAIA Eligibility Center, have your high school send official transcripts to the Eligibility Center and contact ACT or SAT to have their test scores sent directly (the NAIA code is 9876 with ACT and SAT).

NAIA Information Source: <https://www.playnaia.org/page/eligibility.php>

NCAA Information Source: [http://fs.ncaa.org/Docs/eligibility\\_center/1718\\_Initial-Eligibility\\_Brochure.pdf](http://fs.ncaa.org/Docs/eligibility_center/1718_Initial-Eligibility_Brochure.pdf)

## Suggested Patterns of Preparation for College

### College Requirements

Colleges have different requirements for admission. Students should be aware of these different requirements when choosing a high school program. In preparing for college, students should elect a full academic schedule for four years of high school. Electives may be profitably selected from all departments. To perform well on college entrance exams, a student must have a solid academic preparation. A college preparatory curriculum should include at least the following:

- **English** A minimum of four units of high school course work in this area, with subjects taken to emphasize the acquisition of writing skills.
- **Mathematics** A background of not less than four units of mathematics based upon Algebra I, Geometry, Algebra II.
- **Social Studies** At least three units of social studies in the areas of American History, World History, and American Government.
- **Science** At least three units of science.
- **World Language** Two units of coursework in the *SAME* world language.
- **Fine Arts** One unit of fine arts (Music, Visual Art, Dance, or Drama).

These are the recommendations for an Ohio state-supported college.

### Colleges or Universities

Counselors can supply you with information on specific college requirements.

Many colleges are in the process of raising standards. Please check carefully with the counselor on college requirements. Any student who has not completed admission requirements may be admitted to the college and will be expected to correct any deficiencies in addition to pursuing the coursework necessary for regular degree programs. Careful attention needs to be given concerning admission requirements to colleges you are considering. Please check on Naviance for additional College and University Information.

### Highly Selective Colleges

Highly selective colleges require four years of English, Math, Science, three years of Social Studies, and prefer three/ four years of the same World Language. This pattern is primarily for those who have been in advanced programs and participated in rigorous coursework. Counselors can supply you with information on specific college requirements.

**\*Visit Naviance for information on the College Search process and colleges admissions requirements\***

## Class of 2021 Four Year Course Planner

Subject Area	23 Credits Required	9	10	11	12
<b>English Language Arts</b>	4 Credits Required	English I	English II	English III	English IV or Two .5 credit English Electives
<b>Mathematics</b>	4 Credits Required				
<b>Science</b> 1 Physical Science 1 Life Science 1 Advanced Science	3 Credits Required	Physical Science	Biology		
<b>Social Studies</b> World Studies American History Government Consumer Economics	3.5 Credits Required	World Studies	American History	Government	
				Consumer Economics (11 or 12 grade) (.5 credit)	
<b>Health</b>	.5 Credit Required				
<b>Physical Education</b> (.25 each class) <i>*2 PE Waivers Meet this Requirement, but have no credit</i>	.5 Credit Required				
<b>Fine Arts</b> 2 Semesters	1 Credit Required				
<b>Electives</b> <i>Any course above and beyond the required courses receives elective credit.</i>	6.5 Credits Required <i>*7 if using PE waivers</i>				
<b>World Language</b> Not required for graduation, but most universities require 2-3 years of the same language for admission	0 Credits Required <i>(Counts as Elective Credit)</i>				

**In order to graduate from the Class of 2021 needs:** 23 credits and must meet one of the Ohio Department of Education's graduation pathways (listed on the following page).

## Ohio's Class of 2021 Graduation Pathways

As a student entering ninth grade between July 1, 2017 and June 30, 2019, Ohio's new high school graduation requirements give you more flexibility to choose a graduation pathway that builds on your strengths and passions- one that ensures you are ready for your next steps and excited about the future. Students in these graduating classes can meet their diploma requirements through either the current legislative requirements or the new permanent graduation requirements.

The Classes of 2021 and 2022 have the option to show you are ready by meeting the original three graduation pathways shown below or you can meet the new permanent graduation requirements by demonstrating competency and readiness for a job, college, military or a self - sustaining profession by demonstrating the new class of 2023 and beyond requirements.

The current legislative graduation requirements offer three options. Students must meet local criteria for course credit attainment and one of the following three criteria.

1. Ohio's State Tests – Earn 18 out of 35 points on seven end-of-course state tests. You can earn up to five points on each test. You need a minimum of four points in math, four points in English language arts and six points across science and social studies.
2. Industry-recognized credential and score on workforce readiness test – Earn an industry-recognized credential or a group of credentials totaling 12 points and earn the required score on the WorkKeys test. Ohio pays for you to take the test one time. Some districts offer the Senior Only Program through which you can earn credentials in one school year.
3. College and career readiness tests – Earn remediation-free scores\* in math and English language arts on the ACT or SAT. Your district chooses either the ACT or SAT. You will take a one-time statewide spring test in grade 11 for free. \*Ohio's university presidents set these scores, which are subject to change.

**Please see 'Graduation Pathways for Class of 2023' on page 8 to view the Permanent Graduation Requirements.**

*\*Note: The Classes of 2018 – 2020 had very specific legislative 'alternate options' if one of the above pathways was not achievable. Those alternate options were exclusively legislated for those particular classes.*

Sources:

<http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/18-Points-on-State-Tests>

<http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements>

Ohio Graduation Requirements 2021 and Beyond [EnvisionEdPlus Blog](#)

## Class of 2022 Four Year Course Planner

Subject Area	23 Credits Required	9	10	11	12
<b>English Language Arts</b> 4 English Credits Applied Communications	4.5 Credits Required	English I	English II	English III	English IV or Two .5 credit English Electives
				Applied Communications (.5 credit) 11th or 12th	
<b>Mathematics</b>	4 Credits Required				
<b>Science</b> 1 Physical Science 1 Life Science 1 Advanced Science	3 Credits Required	Physical Science	Biology		
<b>Social Studies</b> World Studies American History Government Consumer Economics	3.5 Credits Required	World Studies	American History	Government	
				Consumer Economics (.5 credit) 11th or 12th	
<b>Physical Education</b> (.25 each class) <i>*2 PE Waivers Meet this Requirement, but have no credit</i>	.05 Credit Required				
<b>Career &amp; College Readiness</b>	.5 Credit Required			Career & College Readiness 11th or 12th	
<b>Fine Arts</b> 2 Semesters	1 Credit Required				
<b>Electives</b> <i>Any course above and beyond the required courses receives elective credit.</i>	5.5 Credits Required <i>*6 if using PE waivers</i>				
<b>World Language</b> Not required for graduation, but most universities require 2-3 years of the same language for admission	0 Credits Required <i>(Counts as Elective Credit)</i>				

**In order to graduate from the Class of 2022** needs 23 credits and must meet one of the Ohio Department of Education's graduation requirement models (listed on the following page).



## Ohio's Class of 2022 Graduation Pathways

As a student entering ninth grade between July 1, 2017 and June 30, 2019, Ohio's new high school graduation requirements give you more flexibility to choose a graduation pathway that builds on your strengths and passions- one that ensures you are ready for your next steps and excited about the future. Students in these graduating classes can meet their diploma requirements through either the current legislative requirements or the new permanent graduation requirements.

The Classes of 2021 and 2022 have the option to show you are ready by meeting the original three graduation pathways shown below or you can meet the new permanent graduation requirements by demonstrating competency and readiness for a job, college, military or a self - sustaining profession by demonstrating the new class of 2023 and beyond requirements.

The current legislative graduation requirements offer three options. Students must meet local criteria for course credit attainment and one of the following three criteria.

1. Ohio's State Tests – Earn 18 out of 35 points on seven end-of-course state tests. You can earn up to five points on each test. You need a minimum of four points in math, four points in English language arts and six points across science and social studies.
2. Industry-recognized credential and score on workforce readiness test – Earn an industry-recognized credential or a group of credentials totaling 12 points and earn the required score on the WorkKeys test. Ohio pays for you to take the test one time. Some districts offer the Senior Only Program through which you can earn credentials in one school year.
3. College and career readiness tests – Earn remediation-free scores\* in math and English language arts on the ACT or SAT. Your district chooses either the ACT or SAT. You will take a one-time statewide spring test in grade 11 for free. \*Ohio's university presidents set these scores, which are subject to change.

**Please see 'Graduation Pathways for Class of 2023' on page 8 to view the Permanent Graduation Requirements.**

*\*Note: The Classes of 2018 – 2020 had very specific legislative 'alternate options' if one of the above pathways was not achievable. Those alternate options were exclusively legislated for those particular classes.*

Sources:

<http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/18-Points-on-State-Tests>

<http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements>

Ohio Graduation Requirements 2021 and Beyond [EnvisionEdPlus Blog](#)

## Class of 2023 Four Year Course Planner

Subject Area	23 Credits Required	9	10	11	12
<b>English Language Arts</b> 4 English Credits Applied Communications	4.5 Credits Required	English I	English II	English III	English IV or Two .5 credit English Electives
				Applied Communications (.5 credit) 11th or 12th	
<b>Mathematics</b>	4 Credits Required				
<b>Science</b> 1 Physical Science 1 Life Science 1 Advanced Science	3 Credits Required	Physical Science	Biology		
<b>Social Studies</b> World Studies American History Government (.5 credit) Economics (.5 credit)	3 Credits Required	World Studies	American History	Government (.5 credit) Economics (.5 credit)	
<b>Health</b>	.5 Credit Required				
<b>Physical Education</b> (.25 each class) <i>*2 PE Waivers Meet this Requirement, but have no credit</i>	.5 Credit Required				
<b>Career &amp; College Readiness</b>	.5 Credit Required			Career & College Readiness 11th or 12th	
<b>Fine Arts</b> 2 Semesters	1 Credit Required				
<b>Electives</b> <i>Any course above and beyond the required courses</i>	6 Credits Required <i>*6.5 if using PE waivers</i>				
<b>World Language</b> Not required for graduation, but most universities require 2-3 years of the same language for admission	0 Credits Required (Counts as Elective Credit)				

**In order to graduate, the Class of 2023** needs 23 credits and must meet the Ohio Department of Education's permanent graduation requirements (listed on the following page).

## Class of 2023 and beyond

As a student entering ninth grade on or after July 1, 2019, Ohio’s new high school graduation requirements give you more flexibility to choose a graduation pathway that builds on your strengths and passions - one that ensures you are ready for the next steps and excited about the future.

Under the new permanent requirements shown below, students must meet all three criteria to be eligible for graduation.

### Permanent Graduation Requirements

State law created new, permanent requirements that will be available starting with the class of 2018.\* Students in the classes of 2021 and 2022 who have met or are on track to meet one of the original three pathways (listed above) may continue to use those pathways to satisfy graduation requirements. Students in the classes of 2023 and beyond will be required to meet the permanent requirements in order to graduate. The permanent requirements are listed below:

- 1. Demonstrate Competency:** Students must demonstrate competency in math and English by passing the state’s algebra I and English II tests. Students who have taken required tests more than once without passing and have received remedial supports are able to show competency through one of the options below:
  - Earn credit for one math and/or one English course through College Credit Plus;
  - Demonstrate career readiness and technical skill through foundational and supporting options;
  - Enter into a contract to enlist in the military upon graduation.
- 2. Preparation for College or Careers:** Students must earn two diploma seals, one of which must be state defined, to demonstrate academic, technical and professional readiness for careers, college, the military or self-sustaining professions.

State System of Diploma Seals	
<a href="#">OhioMeansJobs Readiness Seal</a>	<a href="#">Honors Diploma Seal</a>
<a href="#">State Seal of Biliteracy</a>	Technology Seal
Industry-Recognized Credential Seal	Citizenship Seal
College-Ready Seal	Fine and Performing Arts Seal (locally defined)
Military Enlistment Seal	Student Engagement Seal (locally defined)
Science Seal	Community Service Seal (locally defined)

### Additional information regarding diploma seal options:

Every student must earn a minimum of TWO Diploma Seals (One State and One Local). 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.

<http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements>

## **State Seal Options**

- Earn OhioMeansJobs Readiness Seal
- Bi-literacy Seal (demonstrate competency in English and one other language)
- College Readiness Seal (remediation free score on ACT or SAT)
- Honors Diploma Seal (earn any one of Ohio's Honor's Diploma Seals)
- Science Seal (proficient or higher on Biology EOC or CCP science credit with a score of B or higher, or pass AP or IB science at proficient or higher level)
- Citizenship Seal (proficient or higher on American History and American Government EOC or CCP science credit with a score of B or higher, or pass AP or IB science at proficient or higher level)
- Military Seal – successful participation in a JROTC program or military enlistment
- Technology Seal – CCP course in technology, AP/IB course in technology or successful completion of state designed technology course (ODE will need to design course)
- Industry Credential Seal – earn an industry recognized credential for an in-demand job in the state or region.

## **Local Seal Options**

- Community Service Seal – district defined and designed seal for completion of a community service project
- Student Engagement Seal – district defined and designed seal for participation in extracurricular activities
- Fine Arts Seal – district defined and designed for demonstration of a skill (by local evaluation) in fine or performing arts

## Class of 2024 Four Year Course Planner

Subject Area	23 Credits Required	9	10	11	12
<b>English Language Arts</b> 4 English Credits Applied Communications	4.5 Credits Required	English I	English II	English III	English IV or Two .5 credit English Electives
				Applied Communications (.5 credit) 11th or 12th	
<b>Mathematics</b>	4 Credits Required				
<b>Science</b> 1 Physical Science 1 Life Science 1 Advanced Science	3 Credits Required	Physical Science	Biology		
<b>Social Studies</b> World Studies American History Government, Economics	3 Credits Required	World Studies	American History	Government (.5 credit) Economics (.5 credit)	
<b>Health</b>	.5 Credit Required				
<b>Physical Education</b> (.25 each class) <i>*2 PE Waivers Meet this Requirement, but have no credit</i>	.5 Credit Required				
<b>Career &amp; College Readiness</b>	.5 Credit Required			Career & College Readiness 11th or 12th	
<b>Fine Arts</b> 2 Semesters	1 Credit Required				
<b>Electives</b> <i>Any course above and beyond the required courses</i>	6 Credits Required <i>*6.5 if using PE waivers</i>				
<b>World Language</b> Not required for graduation, but most universities require 2-3 years of the same language for admission	0 Credits Required <i>(Counts as Elective Credit)</i>				

**In order to graduate, the Class of 2024** needs 23 credits and must meet the Ohio Department of Education's permanent graduation requirements (listed on the following page).

## Class of 2023 and beyond

As a student entering ninth grade on or after July 1, 2019, Ohio’s new high school graduation requirements give you more flexibility to choose a graduation pathway that builds on your strengths and passions - one that ensures you are ready for the next steps and excited about the future.

Under the new permanent requirements shown below, students must meet all three criteria to be eligible for graduation.

### Permanent Graduation Requirements

State law created new, permanent requirements that will be available starting with the class of 2018.\* Students in the classes of 2021 and 2022 who have met or are on track to meet one of the original three pathways (listed above) may continue to use those pathways to satisfy graduation requirements. Students in the classes of 2023 and beyond will be required to meet the permanent requirements in order to graduate. The permanent requirements are listed below:

- 1. Demonstrate Competency:** Students must demonstrate competency in math and English by passing the state’s algebra I and English II tests. Students who have taken required tests more than once without passing and have received remedial supports are able to show competency through one of the options below:
  - Earn credit for one math and/or one English course through College Credit Plus;
  - Demonstrate career readiness and technical skill through foundational and supporting options;
  - Enter into a contract to enlist in the military upon graduation.
- 2. Preparation for College or Careers:** Students must earn two diploma seals, one of which must be state defined, to demonstrate academic, technical and professional readiness for careers, college, the military or self-sustaining professions.

State System of Diploma Seals	
<a href="#">OhioMeansJobs Readiness Seal</a>	<a href="#">Honors Diploma Seal</a>
<a href="#">State Seal of Biliteracy</a>	Technology Seal
Industry-Recognized Credential Seal	Citizenship Seal
College-Ready Seal	Fine and Performing Arts Seal (locally defined)
Military Enlistment Seal	Student Engagement Seal (locally defined)
Science Seal	Community Service Seal (locally defined)

### Additional information regarding diploma seal options:

Every student must earn a minimum of TWO Diploma Seals (One State and One Local). 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.

<http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements>

### **State Seal Options**

- Earn OhioMeansJobs Readiness Seal
- Bi-literacy Seal (demonstrate competency in English and one other language)
- College Readiness Seal (remediation free score on ACT or SAT)
- Honors Diploma Seal (earn any one of Ohio's Honor's Diploma Seals)
- Science Seal (proficient or higher on Biology EOC or CCP science credit with a score of B or higher, or pass AP or IB science at proficient or higher level)
- Citizenship Seal (proficient or higher on American History and American Government EOC or CCP science credit with a score of B or higher, or pass AP or IB science at proficient or higher level)
- Military Seal – successful participation in a JROTC program or military enlistment
- Technology Seal – CCP course in technology, AP/IB course in technology or successful completion of state designed technology course (ODE will need to design course)
- Industry Credential Seal – earn an industry recognized credential for an in-demand job in the state or region.

### **Local Seal Options**

- Community Service Seal – district defined and designed seal for completion of a community service project
- Student Engagement Seal – district defined and designed seal for participation in extracurricular activities
- Fine Arts Seal – district defined and designed for demonstration of a skill (by local evaluation) in fine or performing arts

## Industry Recognized Credentials

### What is an industry-recognized credential?

An industry-recognized credential is a verification of an individual's qualification or competence. A third party with authority (U.S. Department of Labor, 2010) issues a credential. Industry-recognized credentials are valued in the labor market and are a validation of knowledge and skills. They can take many forms, including certifications, certificates, and licenses.

### Why should students earn industry-recognized credentials?

In addition to helping students meet graduation requirements, earning an industry-recognized credential allows students to learn about a particular skill set or job and demonstrate mastery of skills. Students learn more deeply by practicing and applying their knowledge through work and employment experiences. They learn about workplace expectations and professional skills needed for employment, as well as learning about career pathways. Industry-recognized credentials provide an opportunity to earn a livable wage while pursuing additional education. Some industry-recognized credentials can be used as evidence of prior learning and can be awarded college credit.

- The class of 2023 and beyond must demonstrate readiness by earning at least two diploma seals, one of which must be *State-Defined*. The Industry-Recognized Credential Seal is a *State-Defined Diploma Seal*.
- The classes of 2021 and 2022 must complete one of the following three pathways:
  - Score work ready on the WorkKeys and earn a 12-point, approved industry-recognized credential (or group of credentials)
  - Earn 18 Graduation Points on Ohio's State Tests
  - Earn a remediation free score on the ACT or SAT

See ODE's Overview of Graduation Requirements by Graduating Class:

<http://education.ohio.gov/getattachment/Topics/Ohio-s-Graduation-Requirements/Graduation-Req-by-Cohort-Overview.pdf>

### How do students earn industry-recognized credentials?

Students can earn industry-recognized credentials through comprehensive career-technical education programs, through programs dedicated specifically to credentials for students in their senior year, or through existing courses that integrate the content needed to successfully obtain the credential. Students can also earn credentials outside of the traditional school setting or model, participating in training conducted outside of the school.

Monroe High School offers the following classes that give students the opportunity to earn Industry-Recognized Credentials: Adobe Dreamweaver Certification, Google Applications, Entrepreneurship Certification, Lean Six Sigma

For more information on Industry Recognized Credentials, see the following webpages:

- Industry Recognized Credentials FAQs:  
<http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Industry-Recognized-Credentials/Industry-Recognized-Credentials-FAQs>
- Industry Recognized Credentials by Career Field:  
<http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Industry-Recognized-Credentials/Industry-Recognized-Credentials-by-Career-Field>



## State Approved Criteria for Diploma with Honors

High school students can gain state recognition for exceeding Ohio’s graduation requirements through an honors diploma. Students challenge themselves by taking and succeeding at high-level coursework and in real-world experiences. Ohio students have the opportunity **to choose to pursue one** of six honors diplomas:

- [Academic Honors Diploma](#)
- [International Baccalaureate Honors Diploma](#)
- [Career Tech Honors Diploma](#)
- [STEM Honors Diploma](#)
- [Arts Honors Diploma](#)
- [Social Science and Civic Engagement Honors Diploma](#)

**Students who are interested in pursuing any honors diploma other than the Academic Honors Diploma, should notify their school counselor of their intention to pursue this honors diploma.** The school counselor will then meet with the student and discuss the requirements for the particular honors diploma that the student is interested in. The counselor and student will collaboratively talk through a plan and timeline for how the student can work to achieve this honors diploma.

### Academic Honors Diploma

Students must meet ***all but one*** of the following criteria, unless it is a minimum graduation requirement. Students must meet general graduation requirements to qualify for honors diplomas.

Math	4 units ( <i>algebra I, geometry, algebra II, and one higher level course</i> )
Science	4 units, including 2 units of advanced science
Social Studies	4 units
World Languages	3 units of one world language, or no less than 2 units of each of two world languages studied
Fine Arts	1 unit
GPA	3.5 on a 4.0 scale ( <i>on an unweighted scale</i> )
ACT/SAT	ACT: 27 or higher/SAT: 1280 or higher

## Early Graduation

Students may request permission to graduate early, at the end of their junior year or in December of their senior year. Early graduation is an opportunity for very capable students to complete their high school academic requirements early. They have concrete plans to pursue further education and/or full-time employment. Students must complete the 23 credits required for the district's standard diploma. The specific details of the standard diploma requirements are found in this Course Description Book on the Monroe Local Schools website.

**Students wishing to graduate early must apply by May 1st of their previous academic year to be considered for this opportunity.** For example, if you are requesting to graduate in December of your senior year, you must apply by May 1st of your junior year. After reviewing his/her plan with the counselor, the counselor will meet and review the plan with the principal for final approval. After final approval, a meeting will be set up with the student, parents and counselor. If the student is granted the opportunity to graduate early, he/she must fulfill all of the district and state graduation requirements to earn a standard diploma.

Click on the link below to learn additional information about Early Graduation, and complete the application:

[Early Graduation Request Packet](#)

# Course Descriptions

<b>Department</b>	<b>Page Number</b>
Computer Technology & Business Education	<b>27-28</b>
Language Arts	<b>29-33</b>
Mathematics	<b>34-37</b>
Music	<b>38-40</b>
Physical Education and Health	<b>41-42</b>
Science	<b>43-46</b>
Social Studies	<b>47-50</b>
Visual Arts	<b>51-53</b>
World Languages	<b>54-55</b>
Butler Tech & Career Development Programs	<b>56-58</b>

We will make every attempt to offer the courses described in this booklet. However, **course offerings are subject to change depending on financial and space constraints.**

Changes or additional fee amounts are announced in the spring.

# Computer Technology & Business Education

The following courses are offered to prepare students for a job, college, or future endeavours. The purpose is to understand what business is, how it functions, and how it serves the individual and society as a whole.

<b>Google Applications</b>			
Grades: 9, 10, 11 12	Credits: 0.5	One semester	Fees: TBA
Prerequisite: None			
Computers are a must for every student. This course will introduce you to the basics of computers. Emphasis will be placed on application of current technologies and you will learn how to create documents for high school, college, and business communications. (G-Docs, G-sheets, G-calendar, G-Forms, G-slides and other Google applications features) will be taught.			

<b>Accounting</b>			
Grades: 10, 11 12	Credits: 0.5	One semester	Fees: \$10.00
Prerequisite: None			
ATTENTION COLLEGE-BOUND BUSINESS MAJORS - Get a jump-start on a required course if you intend to major in business areas such as advertising, management, marketing, international business, or accounting. This course will enable you to learn the skills necessary to understand financial concepts for success in college accounting. Emphasis is placed on the preparation and maintenance of records and reports essential to recording, summarizing, and reporting business activities such as: cash records, purchases and sales records, payroll records and information, income tax, and social security tax data and records. Computers with automated accounting software are used to journalize and post transactions as an end-of-the year project.			

<b>Entrepreneurship</b>			
Grades: 9, 10, 11 12	Credits: 0.5	One semester	Fees: None
Prerequisite: None			
How do businesses make money and operate? How do you save yourself money while getting the things you want and need for life? Are “American products” actually made in America? What role will “E-business” play in your future? Along with these topics, we will learn about the “ripple effect” and the impact of a worldwide economy on our economy.			

### **Entrepreneurship Certification**

Grades: 10,11,12

Credits: 1

Full Year

Fees: TBA

Prerequisite: None

This course teaches students the business and academic skills they need to build and manage a successful 21st century business. The course focuses on the fundamentals of entrepreneurship, recognizing opportunities, determining the feasibility of a business idea, conducting market research, managing marketing strategies, and more. Students will cover every aspect of a comprehensive business plan.

This course will include the option to earn state Industry-Recognized credentials through Entrepreneurship and Small Business Certification. These [Industry-Recognized credentials](#) could be used towards earning your high school diploma.

### **Web Design**

Grades: 9, 10, 11 12

Credits: 0.5

One semester

Fees: None

Prerequisite: None

In Web Design you will graduate from just “surfing” to design and creation. You will learn how to use the World Wide Web as a design and communication platform. You will learn the basics of HTML, CSS, web page construction, image design and produce your own web page. You will also develop items to be used on the HornetHallway.org website.

### **Adobe Dreamweaver Certification**

Grades: 10,11,12

Credits: 1

Full Year

Fees: TBA

Prerequisite: None

In this course we will define sites for FTP connections, create, edit, and delete pages, use the Files panel to manage pages/assets while adding content such as text, images, and rich media to pages including HTML5 audio and video content. CSS will be used to format text, images and position page elements. They will add JavaScript behaviors to pages. They will create responsive layouts and understand media queries and use Check in/Check out to collaborate on group projects

This course will include the option to earn state Industry-Recognized credentials through Adobe Dreamweaver Certification. These [Industry-Recognized credentials](#) could be used towards earning your high school diploma.

# Language Arts

Students are required to have 4 credits in Language Arts to meet graduation requirements.

## Language Arts Course Sequence Options

	9	10	11	12
<b>Sequence 1a</b>	English I	English II	English III <i>Required for Class of 2022 &amp; beyond: College &amp; Career Readiness and Applied Communications</i>	English IV
<b>Sequence 1b</b>	English I	English II	English III <i>Required for Class of 2022 &amp; beyond: College &amp; Career Readiness and Applied Communications</i>	Choose two of the following (each .5credit): Creative Writing, Drama, Journalism
<b>Sequence 2a</b>	English I Hon.	English II Hon.	English III Hon. <i>Required for Class of 2022 &amp; beyond: College &amp; Career Readiness and Applied Communications</i>	ENG 101 and/or ENG 103 (Cincinnati State)
<b>Sequence 2b</b>	English I Hon.	English II Hon.	ENG 101 (Cincinnati State) <i>Required for Class of 2022 &amp; beyond: College &amp; Career Readiness and Applied Communications</i>	ENG 103 (Cincinnati State)
<b>Sequence 2c</b>	English I Hon.	English II Hon.	ENG 101 & ENG 103 (Cincinnati State) <i>Required for Class of 2022 &amp; beyond: College &amp; Career Readiness and Applied Communications</i>	LIT 200 (Cincinnati State) Cannot take LIT 200 without ENG 101&103

The English language arts program must fit the needs of students who live in a world where communication and understanding will be increasingly important. Language arts' experiences for students must recognize that current and future demands of the workplace, society, and the individual go beyond basic reading and writing literacy. In order to participate fully in society and to realize their potential, students must encounter an English language arts program where language learning occurs in a literate environment where students use reading, writing, listening, and speaking for authentic purposes and audiences. Students are surrounded by language in all forms, in an interactive classroom. To become competent in all the language processes, the processes must be addressed in an integrated fashion.

**English I**

Grades: 9	Credits: 1	2 semesters (Full year)	Fees: \$35.00
-----------	------------	-------------------------	---------------

Prerequisite: None

This course is designed to meet the students' needs in reading, writing, listening and speaking. The study of literature includes short stories, nonfiction, poetry, drama, epics, and novels. Accompanying this study is a concentrated composition program focusing on the use of the writing process to develop paragraphs and essays. Grammar concepts will also be mastered. Growth in vocabulary will be acquired through speaking and reading. Speaking skills are practiced through oral readings, drama, and through class discussions.

**Honors English I**

Grades: 9	Credits: 1 (.025 add on )	2 semesters (Full year)	Fees: \$35.00
-----------	---------------------------	-------------------------	---------------

Prerequisite: Language Arts 8 "B" average, and teacher recommendation

This course is designed to meet the needs of advanced students in reading, writing, listening, and speaking. The study of literature includes the exploration of multiple genres accompanied by a concentrated composition program focusing on the use of writing process to develop competent paragraphs and essays. Grammar concepts will also be mastered. Growth in vocabulary will be acquired through various classroom activities. This class uses the regular freshman textbook, and will move at a faster pace and possess more in-depth study as well as supplemental novels. Summer reading may be a requirement for this course. Summer assignment materials may need to be purchased by students.

**English II**

Grades: 10	Credits: 1	2 semesters (Full year)	Fees: \$35.00
------------	------------	-------------------------	---------------

Prerequisite: English II

This course is designed to provide a basic overview of various types of literature, while incorporating reading, writing, listening, and speaking skills. Students will be preparing for the standards that will be measured through state assessments. Students will be required to read supplemental novels, to maintain a class journal, to work in groups, and to compile a writing portfolio.

**Honors English II**

Grades: 10	Credits: 1 (.025 add on )	2 semesters (Full year)	Fees: \$35.00
------------	---------------------------	-------------------------	---------------

Prerequisite: Honors English I, B average, and teacher recommendation

This course is designed to provide a basic overview of various types of literature, while incorporating reading, writing, listening, and speaking skills. Students will be preparing for the standards that will be measured through state assessments. Students will be required to read supplemental novels, to maintain a class journal, to work in groups, and to compile a writing portfolio. This course differs from English II in length/quantity of assignments and higher expectations. Summer reading may be a requirement for this course. Summer assignment materials may need to be purchased by students.

<b>English III</b>			
Grades: 11	Credits:1	2 semesters (Full year)	Fees: \$35.00
Prerequisite: English I & II			
This course is designed to provide a basic understanding of American literature, ranging from logs and journals of early settlers to poetry and novels of contemporary writers. Students will be required to read supplemental novels, to maintain a class journal, to work both individually and in groups to create projects and presentations, and to compile a writing portfolio.			

<b>Honors English III</b>			
Grades: 11	Credits:1 (.025 add on)	2 semesters (Full year)	Fees: \$35.00
Prerequisite: English I & II			
This course is designed for the advanced student in language arts. American Literature is the focus of this class, with emphasis placed on extensive reading and writing. Also, emphasis is placed on critical thinking skills through verbal and written expression.			

<b>English IV</b>			
Grades: 12	Credits:1	2 semesters (Full year)	Fees: \$35.00
Prerequisite: English I, II, & III			
This course includes a study of English literature and composition with a focus on personal expression and preparation for college writing. Senior Exit Projects will stress written and oral expressions, taking into account individual interests and ability.			

<b>Cincinnati State ENG 101: English Composition</b> (College Credit Plus Course on Monroe High School Campus) <b>Ohio Transfer Module Approved</b>			
Grades: 11 & 12	Credits:1 (.050 add on)	1 Semester (Half year)	Fees: \$0
Prerequisite: None/ However an essay submission is required.			
ENG 101 is an introduction to college writing focusing on understanding the writing process. Topics include: identifying audiences; developing a strong thesis; providing sufficient evidence for claims; and writing essays with grammatical, mechanical, and stylistic correctness.			



<b>Cincinnati State ENG 103: English Composition</b> (College Credit Plus Course on Monroe High School Campus) <b>Ohio Transfer Module Approved</b>			
Grades: 12	Credits: 1 (.050 add on)	1 Semester (Half year)	Fees: \$0
Prerequisite: ENG 101			
This course is a continuation of ENG 101: Topics include: critical reading, argumentation, the research process and the research paper; and reading, synthesizing, and responding critically to literature.			

<b>Cincinnati State LIT 200: Introduction to Literature</b> (College Credit Plus Course on Monroe High School Campus) <b>Ohio Transfer Module Approved</b>			
Grades: 12	Credits: 1 (.050 add on)	1 Semester (Half year)	Fees: \$0
Prerequisite: ENG 101 & 103 (6 hours of college composition)			
A course on strategies for critical reading and analysis of literature using a variety of interpretive approaches.			

<b>Creative Writing</b>			
Grades: 10, 11, 12	Credits: .05	1 Semester (Half year)	Fees: \$0
Prerequisite: 3 English Credits			
This course is designed to allow students the opportunity to express themselves through the development of a multi-genre writing portfolio. This student-centered class will focus on actively writing, enhancing creativity, peer editing, discussing student writing, and gaining a better understanding of the writing process. Topics covered include (but are not limited to) poetry, memoirs, novels, and short stories. Creative writing is recommended for those students who like to read and write or who want to become better writers. It is also valuable for those students looking for a creative outlet for their personal thoughts, feelings, and self-expression.			

<b>Drama</b>			
Grades: 10, 11, 12	Credits: .05	1 Semester (Half year)	Fees: \$0
Prerequisite: None			
This course is an introduction to the study of acting and appreciation of drama. Improvisation, voice, dialect, and basic acting techniques are practiced in class. Students who have a special interest and talent in the field of theatre would have an opportunity to advance their skills in this course. Theatre history, audition skills, monologues, and scene study and design will all be practiced and emphasized. Performance and work in front of the class will be required			

<b>Journalism</b>			
Grades: 10, 11, 12	Credits: .05	1 Semester (Half year)	Fees: \$0
Prerequisite: None			
Students practice in issue-oriented reporting, feature, sports, and opinion writing as well as advertising design, photography, video work, research, interviewing, and other news-gathering strategies. Skills will be applied via the school news publication and website.			

<b>Applied Communications (Previously called Public Speaking)</b>			
Grades: 10, 11, 12	Credits: 0.50	1 Semester (Half year)	Fees: \$0
Prerequisite: None			
This course is designed to give students an introduction to oral communication skills with an emphasis on the vocal and physical delivery skills utilized in various forms of oral presentation. Students will learn various presentation skills and methods. Emphasis is placed on a practical rather than a theoretical approach. Various types of speeches include introductory, demonstrative, informative, persuasive, and performance for the media. Some of the phases covered in this course are as follows: understanding the functioning of the speech mechanism, effective interpersonal communication, listening, constructive criticism, outlining a speech, group discussion, and oral interpretation. It is expected that students will enter the course with varying skills and that each student will progress to the highest skills that his/her ability will allow.			

<b>College &amp; Career Readiness</b>			
Grades: 11, 12	Credits: 0.50	1 Semester (Half year)	Fees: \$0
Prerequisite: English I, II			
This course is designed to assist students in developing skills for success as a lifelong learner. During the course students will explore occupations and postsecondary options. Students will analyze career and college trends alongside study techniques and habits. Researching careers and colleges, budgeting, and financial literacy will take place. Students will consider career pathways, employment skills, interviewing techniques, as well as effective interpersonal communication including conflict resolution. Additional topics will include issues in the workplace, decision making, and time management. Career and college awareness, exploration, and planning are the goals of this course.			

# Mathematics

Students are required to earn four credits of mathematics.

## Mathematics Course Sequence Options

	9	10	11	12
<b>Sequence 1a</b>	Algebra I /Algebra Lab (1.5 Credits) Students are assigned to this course.	Geometry	Algebra II	Math & Money Management/Quantitative Reasoning/Honors Statistics
<b>Sequence 1b</b>	Algebra I	Geometry	Algebra II	Math & Money Management/Quantitative Reasoning/Honors Statistics
<b>Sequence 2a</b>	Geometry	Algebra II	Honors Pre-Calculus/Quantitative Reasoning/Honors Statistic	Quantitative Reasoning/Honors Statistics/Honors Calculus
<b>Sequence 2b</b>	Honors Geometry	Honors Algebra II	Honors Pre-Calculus/Quantitative Reasoning/Honors Statistic	Quantitative Reasoning/Honors Statistics/Honors Calculus /CCP Math
<b>Sequence 3a</b>	Algebra 1	Geometry & Algebra II	Honors Pre-Calculus/	Quantitative Reasoning/Honors Statistics/Honors Calculus
<b>Sequence 3b</b>	Algebra 1	Algebra II *	Geometry	Math & Money Management/ Quantitative Reasoning/Honors Statistics/Honors Calculus

**A Note to Parents and Students:** Monroe Local Schools offers our students the traditional Algebra sequence (1a & 1b). (To see the entire sequences, please refer to the chart above). By focusing on this sequence, we ensure that students receive the state standards. This sequence will focus on the mastery of the state's grade level curriculums. By offering sequences 2 and 3, students in the college prep track will have the opportunity to pursue Quantitative Reasoning, Precalculus, and Statistics. This coursework will prepare them for college level mathematics. The honors track moves at a faster pace, is more rigorous in nature, and explores concepts more deeply. Both tracks will prepare students for the AIR Testing, career preparation and or college-level math. We would also recommend students have a **TI-84 graphing calculator** for these courses. You will need to contact your child's teacher, if you do not have internet access. Many of our courses now come with an online textbook.

<b>Algebra I</b>			
Grades: 9	Credits: 1	2 semesters (Full year)	Fees: \$0
Prerequisite: None			
The skills developed in this class are needed for physics, chemistry, and geometry. It is the first step in mathematics beyond arithmetic and furnishes the language and mechanics for all higher mathematics. This course covers basic topics including linear equations and systems of equations, integer exponents, polynomial products, factoring quadratic equations, together with the analysis and solution of word problems.			

<b>Geometry</b>			
Grades: 9, 10	Credits: 1	2 semesters (Full year)	Fees: \$0
Prerequisite: Algebra I			
This course covers properties of geometric figures in two and three dimensions, applications of geometric formulas, right triangle trigonometry, basic postulates of Euclidean geometry, and construction of proofs of geometric theorems. Students gain experience in drawing in two and three dimensions.			

<b>Honors Geometry</b>			
Grades: 9, 10	Credits: 1 (.025 add on )	2 semesters (Full year)	Fees: \$0
Prerequisite: B- in Alg. I and teacher recommendation			
This course is designed for the accelerated math student. Topics include: properties of geometric figures in two and three dimensions, applications of geometric formulas, right triangle trigonometry, basic postulates of Euclidean geometry, and construction of proofs of geometric theorems at an advanced pace. Students gain experience in drawing in two and three dimensions. There will be a weight of .025 per semester to a student's GPA for taking this course.			

<b>Algebra II</b>			
Grades: 10, 11	Credits: 1	2 semesters (Full year)	Fees: \$0
Prerequisite: Algebra I and Geometry, or concurrent enrollment in Geometry			
This course includes extensions of Algebra I including quadratic equations (and the method of completing the square), complex numbers, polynomials, rational expressions, graphs of functions, fractional exponents, radicals, linear and quadratic inequalities, absolute value inequalities, arithmetic and geometric sequences, the binomial theorem, together with the analysis and solution of word problems.			

<b>Honors Algebra II</b>			
Grades: 10, 11	Credits: 1 (.025 add on )	2 semesters (Full year)	Fees: \$0
Prerequisite: B- or better in Honors Geometry, or concurrent enrollment in Honors Geometry with a teacher recommendation			
This course is designed for the accelerated math student. Topics include: quadratic equations (and the method of completing the square), complex numbers, polynomials, rational expressions, graphs of functions, fractional exponents, radicals, linear and quadratic inequalities, absolute value inequalities, arithmetic and geometric sequences, the binomial theorem, statistics concepts, together with the analysis and solution of word problems. General statistics concepts will be provided so that students have the skills to analyze data on an advanced level. There will be a weight of .025 added to a student's GPA per semester for taking this course.			

<b>Honors Pre-Calculus</b>			
Grades: 11, 12	Credits: 1 (.025 add on )	2 semesters (Full year)	Fees: \$0
Prerequisite: B- or better in Honors Algebra II with teacher recommendation			
<p>This course is designed for the advanced math student. This course will offer a semester of pure trigonometry. Then, it will apply the trigonometry concepts to pre-calculus foundations. The trigonometry will cover all aspects of trigonometry including angles, identities, trigonometric values, functions, equations and laws of sine and cosine. Students will prepare to move on to advanced trigonometry in a collegiate setting. This class will prepare students for College Calculus and will use a collegiate level textbook. This class will add .025 to a student's GPA per semester.</p>			

<b>Quantitative Reasoning</b>			
Grades: 12	Credits: 1	2 semesters (Full year)	Fees: \$0
Prerequisite: Algebra II			
<p>This course is creating an innovative post-Algebra II alternative to Pre-calculus for students who have completed Algebra I, Geometry, and Algebra II. Quantitative Reasoning develops mathematical proficiency, statistical proficiency, and quantitative literacy, filling a critical gap in our student's high school mathematics course offerings. This course is aligned with the Common Core Standards for Mathematics. It is a solution to the fourth year of high school mathematics now required by the state of Ohio. It addresses numerical reasoning, statistical reasoning, modeling, and spatial reasoning--and balances mathematics language development with in-context, technology-supported inquiry and problem solving.</p>			

<b>Honors Calculus</b>			
Grades: 12	Credits: 1 (.025 add on )	2 semesters (Full year)	Fees: \$0
Prerequisite: Pre-Calculus			
<p>Calculus deals with calculating and exploring things that change at variable rates. The major concepts of calculus include limits, derivatives, and integrals. We will explore each concept in four different ways; graphically, numerically, algebraically, and verbally emphasizing the connections and applications.</p>			

<b>Honors Statistics</b>			
Grades: 12	Credits: 1 (.025 add on )	2 semesters (Full year)	Fees: TBA
Prerequisite: Algebra II			
<p>This course offers students a survey of statistical and pre-calculus concepts. Course content will include: sampling methods, graphical displays, measures of center and variation, normal distribution, linear regressions, confidence intervals, probability, and hypothesis tests. The course will also review concepts from Algebra including function analysis, logarithmic functions, unit circle, and graphing trig curves.</p>			

**Math & Money Management**

Grades: 12

Credits: 1

2 semesters (Full year)

Fees: \$0

Prerequisite: Geometry and Algebra II

This course takes an in-depth look at the math of personal finance. Topics covered include earnings, budgets, checking and savings accounts, credit and credit cards, consumer loans, purchasing a vehicle and a home, insurance, income taxes and investments. Students will participate in the Ohio Stock Market Game. Extensive use of professionals from the community will extend the learning beyond the classroom. reasoning, statistical reasoning, modeling, and spatial reasoning--and balances mathematics language development with in-context, technology-supported inquiry and problem solving.

# Music

**Students must obtain one credit of Fine Art to meet the Graduation Requirement.**

Music courses may be either a basis for a lifetime work and career or for pleasure in a recreational sense. The joy and challenge of music in all of its aspects are developed by the many courses available. We encourage all students to take one course per year in some areas of music appreciation or skill building. In order for a student to achieve a major in music, a course in theory and harmony must be taken. Many students benefit greatly from the togetherness and social skills learned by participating in the performing musical groups such as band or concert choir. The discipline necessary to develop the demanding skills of music performance will serve students well throughout their lives. Most of all, we encourage everyone to take music for the pure joy of musical expression.

<b>Chorale</b>			
Grades: 9, 10, 11,12	Credits: 1	2 semesters (Full year)	Fees: \$0
Prerequisite: <b>Audition with director:</b> enrollment must be for both semesters.			
This is a select choral ensemble. Repertoire studied will include accompanied and a cappella representative choral literature of various styles and periods for mixed voices through advanced difficulty levels. Appropriate rehearsal/performance disciplines and standards will be maintained within the group and proper vocal technique, sight-singing, and ear-training skills, at an advanced level of proficiency are reinforced. Occasional after school rehearsals may occur and participation in numerous public performances throughout the school year is required. Students may prepare for O.M.E.A. solo and ensemble competition and various other competitions. Written material and tests may be required with some units of study. MHS vocal groups meeting outside of regular class time will be selected on an audition basis. These groups will be singing advanced difficulty levels of music and will be members of A Cappella Choir. Enrollment must be for both semesters.			

<b>Mixed Chorus</b>			
Grades: 9, 10, 11,12	Credits: 1	2 semesters (Full year)	Fees: \$0
Prerequisite: None			
Mixed Chorus is a preparatory mixed choral ensemble designed to teach application of the basic principles of music through vocal performance. Repertoire studied will include representative choral literature of various styles and periods for mixed voices through moderate difficulty level. Proper vocal technique, sight-singing, ear- training skills and appropriate rehearsal/performance disciplines and standards will be taught and maintained within the group. Occasional after school rehearsals may occur and participation in three public concerts/performances is required: fall, winter, and spring concerts in the auditorium. Voice classification placement testing will be done with each member by the director. Grading/evaluation will be based on performance requirements, written and aural testing over material covered, and class participation.			

<b>Guitar I</b>			
Grades: 9, 10, 11,12	Credits: 0.50	1 semester (Half year)	Fees: Instrumental supplies, maintenance materials and fees associated with playing the guitar.
Prerequisite: None			
A course open to all students not necessarily in a performing group, who enjoy music and want to gain a better understanding of it. This course will help beginning to moderate skilled guitarist. Students will be provided a school guitar. Students will learn guitar care, techniques, tablature, note/rhythm reading and chording.			

<b>Guitar II</b>			
Grades: 9, 10, 11,12	Credits: 0.50	1 semester (Half year)	Fees: \$15
Prerequisite: Guitar I			
Continuation of skills learned in Guitar I. This course will help beginning to moderate skilled guitarist. Students will be provided a school guitar. Students will learn guitar care, techniques, tablature, note/rhythm reading and chording.			

<b>Piano I</b>			
Grades: 9, 10, 11,12	Credits: 0.50	1 semester (Half year)	Fees: \$15
Prerequisite: Guitar I			
This course is for beginners (those who have never played piano before). Students will work as a class for the first nine weeks. Then students will begin to work independently and progressing at their own pace.			

<b>Piano II</b>			
Grades: 9, 10, 11,12	Credits: 0.50	1 semester (Half year)	Fees: \$15
Prerequisite: Piano I			
This course is for students with some experience through the advanced level. The first nine weeks students will work independently based upon their level of instruction. The second nine weeks students will explore and create music composition & theory.			



<b>Concert Band</b>			
Grades: 9, 10, 11,12	Credits: 1	2 semesters (Full year)	Fees: Instrumental supplies, maintenance materials and fees associated with playing a band instrument.
Prerequisite: Play a woodwind, brass or percussion instrument proficiently			
<b>Course Description</b>			
<ul style="list-style-type: none"> <li>● Provide a performance based, instrumental music class for high school students (grades 9-12) who are developing their skills as musicians</li> <li>● Allow students of similar basic/intermediate playing abilities to learn in a productive environment to further their music education</li> <li>● Increase the confidence level of developing student musicians</li> <li>● Perform at OMEA sanctioned events for either comments only or for ratings and at various concerts/performances throughout the year</li> <li>● Students will be auditioned and then placed in either Concert or Symphonic Band</li> </ul>			

<b>Symphonic Band</b>			
Grades: 9, 10, 11,12	Credits: 1	2 semesters (Full year)	Fees: Instrumental supplies, maintenance materials and fees associated with playing a band instrument.
Prerequisite: Play a woodwind, brass or percussion instrument proficiently			
<b>Course Description</b>			
<ul style="list-style-type: none"> <li>● Provide a performance based, instrumental music class for high school students (grades 9-12) who perform with a high level of musical practice, talent, and dedication, while continuing to develop their skills</li> <li>● Allow students of similar intermediate/advanced playing abilities to learn in a productive environment to further their music education</li> <li>● Increase the playing abilities of students through the repertoire that is presented</li> <li>● Perform at OMEA sanctioned events for ratings and at various concerts/performances throughout the year</li> <li>● Students will be auditioned and then placed in either Concert or Symphonic Band</li> </ul>			

<b>Jazz Ensemble</b>			
Grades: 9, 10, 11,12	Credits: 0.50	1 semester (Half year)	Fees: Instrumental supplies, maintenance materials and fees associated with playing a band instrument.
Prerequisite: Play a woodwind, brass or percussion instrument proficiently			
<b>Course Description</b>			
<ul style="list-style-type: none"> <li>● Students will learn various musical concepts within a jazz ensemble setting to improve their instrumental music education. <ul style="list-style-type: none"> <li>○ Jazz/Blues Scales, swing, funk, rock, ballad, rhythmic complexities, lead sheets, improvisation, chord structures</li> </ul> </li> <li>● Students will reinforce their fundamental knowledge of their specific instruments, i.e. embouchure creation, fingerings, scale patterns, while expanding their knowledge using jazz techniques such as soloing, studying music theory, and understanding more complex rhythmic, melodic, and harmonic concepts</li> <li>● Students will perform repertoire at an accessible level for their ability level (Grade 2-2.5), while being held to a specific level of rigor to ensure that the music is performed both technically and musically at a high level.</li> </ul>			

# Physical Education and Health

Students are required to take Health (.5 credit) to meet graduation requirements.

To meet the Physical Education graduation requirements, students must meet one of the two following options:

1. Earn ½ credit by completing 2 PE courses. (Phys Ed + 1 other)
2. Turn in two PE Waivers (1 waiver per season)

*Students will NOT receive credit for the PE waiver.*

You must follow the PE waiver guidelines as outlined on Final Forms.

NOTE: Students are not allowed to combine PE credit and the waiver.

Physical education is important both for physical fitness and for recreation. The students will learn skills valuable to them for the rest of their lives. **Appropriate dress is required.**

<b>Health</b>			
Grades: 9 (Required for graduation)	Credits: 0.50	1 semester (Half year)	Fees: \$30
Prerequisite: None			
Students will explore topics such as body structures and functions, safety and first aid, CPR, community and environmental health, health practices and wellness, health careers and related occupations, diseases, human sexuality and substance abuse. Students will explore current health topics by conducting deeper research into health topics and issues. Topics may include: sexually transmitted diseases, first aid, mental and emotional health, prevention and control of disease, family living, mood modifiers, nutrition, physical fitness as well as other topics. This class will allow students to explore their interests as they pertain to health.			

<b>Physical Education (Basic Fitness)</b>			
Grades: 9	Credits: 0.25	1 semester (Half year)	Fees: \$0
Prerequisite: None			
In this course, students will develop an understanding of a healthy lifestyle and its correlation to physical fitness focusing on reaching students' target heart rates. Basic Fitness is a foundation course for all other physical education courses. The student will experience a broad exposure to many areas of physical education. The student will develop an understanding of the correlation of physical fitness to a healthy lifestyle. Students will learn basic skills, which will allow them to improve their physical fitness and participation in team sports.			

<b>Team- Lifetime Sports</b>			
Grades: 10, 11, 12	Credits: 0.25	1 semester (Half year)	Fees: \$0
Prerequisite: Physical Education (Basic Fitness)			
Students will understand that the progressive development and perfection of the skills and knowledge involved in team and lifetime sports provide a wholesome, enjoyable, and physically satisfying form of recreational activity, which prepares them for healthy lifestyles. Students will learn team rules, warm up activities and will participate in lifetime sports such as: football, basketball, softball, volleyball, etc. Team and Lifetime Sports I will focus on outdoor sports and will be held 1 <sup>st</sup> quarter and 4 <sup>th</sup> quarter. Team and Lifetime Sports II will focus on indoor sports and will be held 2 <sup>nd</sup> quarter and 3 <sup>rd</sup> quarter			

<b>Weight Training</b>			
Grades: 10, 11, 12	Credits: 0.25	1 semester (Half year)	Fees: \$0
Prerequisite: Physical Education (Basic Fitness)			
This course is geared for students who have an interest in weightlifting for strength development. Weights will run three days a week in the weight room with the other 2 days devoted to speed training, flexibility, and cardiovascular development.			

<b>Sports Medicine I</b>			
Grades: 9, 10, 11, 12	Credits: 0.50	1 semester (Half year)	Fees: \$30
Prerequisite: Health and Biology is recommended			
This class will concentrate on basic human anatomy and terminology with an introduction to simple injuries and evaluation of these injuries. Basic first aid techniques will be taught. Additional studies will focus on the prevention of athletic injuries and basic techniques to care and prevent various injuries. (Students will need to be prepared to wear shorts and t-shirts for various labs.)			

<b>Sports Medicine II</b>			
Grades: 9, 10, 11, 12	Credits: 0.50	1 semester (Half year)	Fees: \$30
Prerequisite: Health, Sports Medicine I, and Biology is recommended			
The course will focus on more advanced techniques for caring for athletic injuries including in-depth evaluations of the injuries and use of appropriate therapeutic modalities. Students will learn about the Athletic Training / Sports Medicine program in detail. Learning about the history of AT/SM.			

<b>Sports Officiating Class</b>			
Grades: 9, 10, 11, 12	Credits: 0.50	1 semester (Half year)	Fees: optional
Prerequisite: Must be at least 14 years old at the start of the class and have a background in athletics or the passion to become more familiar with athletics.			
This course is a study of sports officiating. During this class you will be licensed through OHSAA (Ohio High School Athletic Association). This class will offer the opportunity to be licensed in the following sports. Basketball, Baseball, FastPitch Softball, and Volleyball.. You will be required to take an online (open book) test after each sport is taught (24 contact hours). The course will cost the student \$65 for each sport they would like to be OHSAA certified. You may take this course without being OHSAA certified (your choice). This class will focus on the skills necessary to be a sports official, with the opportunity to make up to \$25-30 an hour. This course is an opportunity to have gainful employment opportunities for a lifetime.			

# Science

**Students are required to have three credits in science to meet graduation requirements.** These credits must include: one credit in physical science, one in life science, and one credit in an advanced physical or life science course. The forensics courses do not count among these three credits.

## Science Course Sequence Options

	9th Grade	10th Grade	11th Grade	12th Grade
<b>Sequence 1</b>	Physical Science	Biology	Environmental Science	Environmental Science
			Zoology	Zoology
<b>Sequence 2</b>	Honors Physical Science	Honors Biology	Chemistry	Physics
			Dual Enrollment Anatomy and Physiology	Dual Enrollment Anatomy and Physiology
			Zoology	Zoology
			Environmental Science	Environmental Science
				Chemistry

### Requirements for Sequence 2:

- Pass all standardized/state level testing at a proficient or above level
- Score A's or B's in the previous course
- Attendance and Teacher recommendation

Science courses offer students a means of achieving scientific literacy and an opportunity to develop problem-solving skills so that students will become wise participants in our increasingly technological world. The science curriculum in grades seven to ten is a seamless program that includes the following state standards: life science, physical science, and earth-space science. There is an emphasis on real-world applications and hands-on activities. The high school program is broad enough to expand a student's knowledge in specific areas as well as to provide a good general background in a variety of scientific subjects. The honors science program offers a student the opportunity to take an honors science course to prepare them for college-level difficulty.

<b>Physical Science</b>			
Grades: 9	Credits: 1	2 semesters (Full year)	Fees: \$15
Prerequisite: None			
Physical Science is an integrated course that addresses basic chemistry, physics, and Earth and space science concepts. Chemistry concepts focus on properties of matter, atoms, periodicity, chemical bonding, and reactions of matter. Physics concepts include energy and waves, and forces and motion. Earth and space concepts include the universe and stars.			

<b>Honors Physical Science</b>			
Grades: 9	Credits: 1 (.025 add on per semester )	2 semesters (Full year)	Fees: \$20
Prerequisite: Current science teacher recommendation and any combination of As and Bs throughout the first three quarters of 8th grade science.			
<p>Honors Physical Science is an integrated course that addresses more in-depth chemistry, physics, and Earth and space science concepts. Chemistry concepts focus on properties of matter, atoms, periodicity, chemical bonding, and reactions of matter. Physics concepts include energy and waves, and forces and motion. Earth and space concepts include the universe and stars. Problem solving skills will be stressed in mathematical relationships as well as in the conclusions that can be derived from laboratory observation. This course is appropriate for individuals who have had success in previous science courses and, in general, take an interest in science. <i>This is a weighted course due to the increased rigor.</i> Students will receive a 0.025 added weight per semester.</p>			

<b>Biology</b>			
Grades: 10	Credits: 1	2 semesters (Full year)	Fees: \$15
Prerequisite: Physical Science			
<p>Concepts addressed in biology include: ecology (ecosystems, food webs, human impact), biological evolution (natural selection, life history of life, and taxonomy), genetics (molecular basis of inheritance and genetic engineering), and cell biology (cellular structure and function, cell division, and cell metabolism). Embedded throughout this course are the basic processes of inquiry, modeling investigations, and the nature of science. Students learn to trace the historical development of scientific theories, ideas, ethical guidelines in science as well as tracing the interdependence of science and technology and the study of emerging issues.</p>			

<b>Honors Biology</b>			
Grades: 10	Credits: 1 (.025 add on )	2 semesters (Full year)	Fees: \$20
Prerequisite: A or B in Physical Science (Honors recommended) and teacher recommendation			
<p>Concepts addressed will include the same topics as biology. In addition, emphasis will be placed on laboratory activities, genetic activities, and calculations. This course is a weighted course due to the increased rigor. Students will receive a 0.025 added weight per semester.</p>			

<b>Environmental Science</b>			
Grades: 11, 12	Credits: 1	2 semesters (Full year)	Fees: \$15
Prerequisite: Biology			
<p>This course deals with the study of how humans interact with the environment. It includes an overview of ecology such as ecosystems, food webs, and biogeochemical cycles. The impacts of human population growth on the biosphere and biodiversity are studied in detail. The different spheres of the Earth are discussed (geosphere, hydrosphere, atmosphere) including how humans affect these areas (ex. pollution) and use resources from them. Finally, solutions to environmental problems are discussed in terms of individuals, science research, and government policy. Activities, projects and comprehensive tests will be used to assess students in the course.</p>			

<b>CP Zoology</b>			
Grades: 11, 12	Credits: 1	2 semesters (Full year)	Fees: \$30
Prerequisite: C or higher in Biology			
<p>This course is a comprehensive overview of the taxonomy, anatomy/physiology, ecology, and behavior of animals. The emphasis is on the 9 major phyla of animals and their classes. These include the common groups of invertebrates (sponges, cnidarians, flatworms, roundworms, mollusks, segmented worms, arthropods, and echinoderms), as well as the common groups of vertebrates (fish, amphibians, reptiles, birds, and mammals). Labs and activities include both living examples and mandatory dissections. Assessments include reports, presentations and projects, as well as comprehensive tests.</p>			

<b>CP Chemistry</b>			
Grades: 11, 12	Credits: 1	2 semesters (Full year)	Fees: \$30
Prerequisite: Physical Science, Biology, A or B in Geometry			
<p>This lab-based course is intended to prepare students for education after high school. Concepts including chemistry as inquiry (scientific inquiry, measurements, dimensional analysis, and metric system), exploring the physical world (properties of matter and gases), discovering the language of chemistry (formulas and equations, stoichiometry and the mole concept), building models of matter (atomic theory, atomic structure, and chemical bonding), and integrating microscopic, macroscopic, and symbolic worlds (kinetics, equilibrium, and thermodynamics). Embedded throughout this course, are the basic process of inquiry, modeling investigations, and the nature of science. Students learn to trace the historical development of scientific theories, ideas, ethical guidelines in science as well as tracing the interdependence of science and technology and the study of emerging issues.</p>			

<b>CP Physics</b>			
Grades: 12	Credits: 1 (.025 add on )	2 semesters (Full year)	Fees: \$30
Prerequisite: Chemistry, A or B in Algebra II			
<p>This lab-based course is intended to prepare students for education after high school. Concepts include understanding physics as inquiry (metric system, vectors, and a mathematical background), exploring forces, and their applications (Newton's Law, types of forces), discovering the universe and the immense energy it contains, behavior of light (electromagnetic spectrum, wave heavier, lenses, luminous intensity, and mirrors), and the application of electricity and magnetism. This course relies heavily on mathematics skills to bridge conceptual and mathematical thinking. Embedded throughout this course are the basic processes of inquiry, modeling investigations, and the nature of science. Students learn to trace the historical development of scientific theories, ideas, ethical guidelines in science as well as trace the interdependence of science and technology and the study of emerging issues. This course is a weighted course due to the increased rigor. Students will receive a 0.025 added weight per semester.</p>			

<b>Dual Enrollment Anatomy &amp; Physiology</b>			
Grades: 11, 12	Credits: 1 (.05 add on )	2 semesters (Full year)	Fees: \$45
Prerequisite: A or B in Biology (Honors recommended), Chemistry (or currently enrolled)			
<p>Concepts addressed in anatomy &amp; physiology include investigations of the structures and functions of the human body. Body systems covered are skeletal, muscular, nervous, endocrine, cardiovascular, digestive, respiratory, urinary, and reproductive systems. Mandatory dissections and laboratory work are used to augment the study of each system. <i>Students enrolled in this course have the option of receiving college credit (4 credits each semester) with the completion of coursework at the C level or higher.</i> This course is a weighted course due to increased rigor. Students will receive a 0.05 added weight per semester.</p>			

<b>Forensics I</b>			
Grades: 11, 12	Credits: 0.50	1 semester (Half year)	Fees: \$20
Prerequisite: Physical Science, Biology			
<p>Have an interest in television shows such as <i>CSI</i>? Take a hands on approach to learning the techniques used in crime scene investigations. Discover background information about the scientific aspects of a crime scene; evidence collection, fingerprints, hair and fiber analysis, drugs and toxicology, autopsy, etc. This course will work in partnership with the Monroe Police Department to give students real world insight of the inner workings of criminal investigation through reenactments of actual criminal cases at the local and national level.</p>			

# Social Studies

Students must have 3.5 credits in social studies to meet graduation requirements. Consumer Economics is required for Graduation. Students who are pursuing the honors diploma must have 4 credits.

## Social Studies Course Sequence Options

	9	10	11	12
<b>Sequence 1</b>	World History	American History	Government Consumer Economics	
<b>Sequence 2</b>	Honors World History	Honors American History	Government Consumer Economics	
<b>Sequence 3</b>	Honors World History	AP US History	AP Government Consumer Economics	

### Requirements for Sequence 2:

- Pass all standardized/ state level testing at proficient or above level
- Earn A's or B's in the previous course
- Attendance and Teacher recommendation

Social Studies courses offer students a means of understanding and appreciating themselves and their culture. A well-educated person needs to know and appreciate our heritage and political institutions. Good citizenship is based on understanding the past, present, our own community, and the world. Courses offered in social studies also enable students to prepare for college studies in specific courses.

<b>World History</b>			
Grade 9	Credits: 1	2 semesters (Full year)	Fees: \$0
Prerequisite: None			
<p>This course is required for all ninth grade students. It is a general survey of World History beginning in 1750 with the study of the Scientific Revolution and continuing through the present day world events. Major topics will include the Scientific Revolution, Enlightenment, French Revolution, the Industrial Revolution, causes of World War I and II, the fall of Communism, The Cold War, and the conflicts in the Middle East.</p> <p><i>Google Classroom will be used as an extension of this class.</i></p>			



**Honors World History**

Grades: 9	Credits: 1 (add on .025)	2 semesters (Full year)	Fees: \$0
-----------	--------------------------	-------------------------	-----------

Prerequisite: 8<sup>th</sup> grade Social Studies and Language Arts teacher recommendation

This course is a rigorous study of World History beginning with the Scientific Revolution and continuing through modern world events. Major topics will include the Scientific Revolution, Enlightenment, French Revolution, the Industrial Revolution, causes of World War I and II, the fall of Communism, The Cold War, and 21st Century issues. The course will include out of class reading which will require the purchase of two paperback / digital novels to read during the year. Honors classes in World History will focus on the skills necessary to excel in advanced placement courses. Focus will also include writing in history, historical research, and interpretation of historical evidence.

**American History: 1877 - Present**

Grades: 10	Credits: 1	2 semesters (Full year)	Fees: \$0
------------	------------	-------------------------	-----------

Prerequisite: World History

This course is required for all tenth grade students. The course will cover the time period from 1877 to the present. Events in American history are studied within the realm of world events and with the idea of the world being a global society. This time period is the immediate predecessor to modern times and will examine issues of the twentieth century and will speculate on the prospects for the twenty-first century.

**Honors American History: 1877 - Present**

Grades: 10	Credits: 1 (add on .025 per semester)	2 semesters (Full year)	Fees: \$0
------------	---------------------------------------	-------------------------	-----------

Prerequisite: Honors World History or teacher recommendation

This course is a rigorous study of American history beginning with the foundations of American government and continuing through modern day American history. Major topics covered will include: government, civil rights, world wars, expansionism, and economics. The course will include outside of class reading which will require the purchase of two paperback / digital novels. Honors American History will put specific focus on the skills necessary to excel in advanced placement courses including writing in history, historical research, and interpretation of historical evidence.

<b>Advanced Placement U.S. History</b>			
Grades: 10,11	Credits: 1 (add on .05 per semester)	2 semesters (Full year)	Fees: AP Exam, AP Review book
Prerequisite: Honors World History / maintain a “B” average or better in 9 <sup>th</sup> grade social studies, Social Studies and English teacher recommendations, and complete AP course application.			
<p>U.S. History Advanced Placement is a demanding introduction to American History and culture that assumes a high level of interest and competence. Because this course is equal to a first-year college course, students should expect that the workload would be heavier than most regular high school history courses. The analytical thinking, writing, and reading skills that students develop in U.S. History Advanced Placement will equip them for college and lifelong learning. This history course integrates political and social history in order to convey the experience of particular groups within the broader perspective of the American past. At the same time, it connects events and issues from the past to the new concerns of the present. History shows Americans continuously adapting to new developments as they shape the world in which they live. This course prepares students to become “students of history” and includes the following points for emphasis: chronological organization, geography literacy; point of view; political dynamics; economic patterns; religious influences; social and cultural trends; intellectual developments; and influences on the arts. <b>AP Exam is a requirement, and will be given in May.</b></p>			

<b>Government</b>			
Grades: 11,12	Credits: 1	2 semesters (Full year)	Fees: \$0
Prerequisite: World History and American History			
<p>The major focus of social studies instruction in the 11<sup>th</sup> grade is to provide students with the opportunity to apply the skills and knowledge they have gained in grades pre-K through 11. The United States Government is the focus. How political, social, and economic choices are made; who makes them; and the effect of those choices are the kinds of questions learners address during this course. Class topics will center on the origins of the American government, the constitution, Congress, the Presidency, and the Federal Court System. The students will participate in projects that will provide them the opportunity to conduct academic research and to utilize the results of this research in considering solutions to real problems or issues. As participatory citizens, they will attempt to get their solutions implemented.</p>			

<b>Advanced Placement U.S. Government and Politics</b>			
Grades: 11,12	Credits: 1 (add on .05 per semester)	2 semesters (Full year)	Fees: AP Exam fee
Prerequisite: Honors American History or a “B” in 10 <sup>th</sup> grade American History			
<p>This course is intended to be the equivalent of a one-semester college introductory course in United States Government and Politics. Six units will be covered in the course with the weighting that is given on the multiple-choice section of the AP exam. Constitutional Underpinnings: 5-15% Political Beliefs and Behaviors: 10-20% Political Parties, Interest Groups, and Mass Media: 10-20% Institutions: Congress, Presidency, Bureaucracy, Courts: 35-45% Public Policy: 5-15% Civil Rights and Civil Liberties: 4-15%. <b>AP Exam required.</b></p>			

<b>Consumer Economics</b>			
Grades: 11,12	Credits: 0.50	1 Semester (Half year)	Fees: \$0
Prerequisite: None			
<b>This course is required for all students. See Butler Tech Courses Offered at MHS for course description.</b>			

<b>Psychology</b>			
Grades: 11 & 12	Credits: 0.50	1 semester (Half year)	Fees: TBA
Prerequisite: None			
<p>This course is a basic introduction of psychology that is designed to introduce students to the study of the behavior and mental processes of human beings and animals. Students will evaluate elements of psychology and its history, areas of the brain and their function, occupational opportunities within the psychology field, perspectives or schools of psychology, research and data finding, elements of learning, cognition, and memory, emotion and behavior, stress and mental disorders, and body language.</p>			

# Visual Art

**Students must obtain one credit of Fine Art to meet the Graduation Requirement.**

Courses in the art curriculum is designed to help students to develop artistically and to foster an appreciation for the fine arts. The courses are for students who have an interest in art for personal enjoyment as well as for the student that would like to further develop skills to pursue a career involving art. Students need to have **Completed Visual Art** before taking other art electives. *Visual Art is the prerequisite for entering Painting I, Drawing I, Ceramics I, and Sculpture I.*

<b>Visual Art</b>			
Grades: 9,10,11,12	Credits: 0.50	1 semester (Half year)	Fees: \$25
Prerequisite: None			
This course provides students with drawing and design experience. The course will teach students the elements and principles of art through a variety of projects. The course will cover 2-dimensional art such as drawing and painting, and 3-dimensional art. Work in aesthetics, art history, and art criticism is included; but studio experience is stressed. Evaluation includes art work, written material, quizzes, tests, exams and sketchbooks (homework).			

<b>Painting I</b>			
Grades: 9,10,11,12	Credits: 0.50	1 semester (Half year)	Fees: \$45
Prerequisite: A grade of “B” or higher in Visual Arts			
This studio course is designed to offer students an introduction to painting and mixing skills in acrylic paint. Students are introduced to basic techniques and application, and will demonstrate their skills in painting exercises and projects. Students will explore color theory and will become acquainted with the work of some famous painters.			

<b>Painting II</b>			
Grades: 10,11,12	Credits: 0.50	1 semester (Half year)	Fees: \$45
Prerequisite: A passing grade of “C” or higher in Painting I			
This studio course builds on the acrylic skills and techniques explored in Painting I and introduces watercolors, and oils. Emphasis is placed upon personal expression through acrylic painting media. A variety of both traditional and non-traditional painting techniques are explored and used in the creation of their paintings. Students will paint on stretched canvases and canvas boards. Painting I is required before entering this course. Cannot be taken in the same semester as Painting I.			

**Drawing**

Grades: 9,10,11,12	Credits: 0.50	1 semester (Half year)	Fees: \$35
--------------------	---------------	------------------------	------------

Prerequisite: A grade of “B” or higher in Visual Arts

In Drawing the students will apply the knowledge learned from Visual Art. They will incorporate the elements and principles of design into the planning and compositions of a number of original works. Students will learn to use a variety of media and techniques to create values and blending in several projects. The objective is to develop strong drawing skills and use of materials related to fine and commercial art.

**Ceramics I**

Grades: 9,10,11,12	Credits: 0.50	1 semester (Half year)	Fees: \$40
--------------------	---------------	------------------------	------------

Prerequisite: Visual Arts

Ceramics is a studio course in which students explore clay as an art form. Emphasis is placed on developing basic hand building skills. Students will construct functional and decorative ceramic objects using 3 basic hand building methods: pinch, coil, and slab. Surface decoration and glaze use are also stressed. Art History is integrated throughout the course and is an integral part of understanding current and past ceramic styles. Students will complete class work assignments, quizzes and exams, along with producing utilitarian and fine art form made from clay.

**Ceramics II**

Grades: 10,11,12	Credits: 0.50	1 semester (Half year)	Fees: \$40
------------------	---------------	------------------------	------------

Prerequisite: Must have had a Passing grade of a “C” or higher in Ceramics I

Ceramics II is an advanced ceramics class with higher expectations. Students will apply the knowledge and skills gained in Ceramics I. Students are expected to demonstrate growth in problem solving, controlling the properties of clay to develop complex forms, strengthening artistic expression, and critical thinking. Students will also become familiar with basic wheel throwing techniques creating several utilitarian pieces. Students will complete class work assignments, quizzes and exams, along with producing utilitarian and fine art form made from clay. Ceramics I is required before taking this course. Cannot be taken in the same semester as Ceramics I.

**Sculpture I**

Grades: 9,10,11,12	Credits: 0.50	1 semester (Half year)	Fees: \$35
--------------------	---------------	------------------------	------------

Prerequisite: A grade of “B” or higher in Visual Arts

This is a studio class designed to present the student with the basic skills, techniques and various methods used to create sculpture in various media. Students may create three-dimensional sculpture forms from clay, wood, wire, and plaster and use them as a means for visual communication and expression. Emphasis is placed upon personal expression, creativity, independent planning, execution of work, and visual communication.

**Digital Design I**

Grades: 9,10,11,12	Credits: 0.50	1 semester (Half year)	Fees: \$35
--------------------	---------------	------------------------	------------

Prerequisite: None

Digital design is designed to expose students to visual communication through hand crafted and digital artworks. Students will create original art works using hand drawn, computer generated and photographic images. Printmaking, illustration, layout and typography will be emphasized. Quizzes, sketching and journaling, written critical analysis and portfolio development will be required.

**Mixed Media Creations**

Grades: 9,10,11,12	Credits: 0.50	1 semester (Half year)	Fees: \$40
--------------------	---------------	------------------------	------------

Prerequisite: None

Students will expand on the knowledge they gained from Visual Art. Students will create their own mixed media creations while exploring clay, Paper-Mache, plaster, relief, carving, printmaking, sculpting, jewelry/enameling, and collage techniques. Work in aesthetics, creativity, and craftsmanship will be stressed. Evaluations includes art work, written material, quizzes, exams and homework.

# World Languages

**Credits in a foreign language are not required for students to meet graduation requirements. Students who plan to attend college are encouraged to earn 2 credits in the same foreign language. Students who are pursuing the honors diploma must have 3 credits in the same foreign language OR 2 credits each of 2 different foreign languages.**

College-bound students should take a World Language in high school. Other students who have a strong interest or language ability should also be encouraged to choose a World Language. The advantages of taking language are increasing career possibilities, advanced standing or course exemption in college, foreign travel potential, cultural and political understanding, and personal satisfaction. German and Spanish are practical languages for students planning careers in business, the natural and social sciences, Foreign Service, as well as advanced work in medicine and engineering. Listening, speaking, reading, and writing are a part of the entire program of the modern World Language. . Fluency in the language is commensurate with the number of years of study and not to be expected immediately.

<b>German I</b>			
Grades: 9, 10, 11, 12	Credits: 1	2 semesters (Full year)	Fees: \$0
Prerequisite: None			
The emphasis is on German as a spoken language. The student is given the opportunity to develop skills in speaking, listening, reading, and writing German. The student will also learn about the culture and civilization of the German speaking countries.			

<b>German II</b>			
Grades: 10, 11, 12	Credits: 1	2 semesters (Full year)	Fees: \$0
Prerequisite: German I			
This course is a continuation of German I and offers further study and practice in speaking, listening, reading, and writing German. There is also further study of German culture and civilization.			

<b>German III</b>			
Grades: 11, 12	Credits: 1	2 semesters (Full year)	Fees: \$10
Prerequisite: German II			
This course continues with further understanding and ability in speaking, listening, reading, and writing in German. Vocabulary, basic language structures, and verb tenses are increased. More emphasis is added to German history and culture. This course should be considered for students who are planning to go to college.			

<b>German IV</b>			
Grades: 12	Credits: 1	2 semesters (Full year)	Fees: \$10
Prerequisite: German III			
Further study of German with emphasis on reading, listening, writing, and speaking forms the basis for this course. Students will be exposed to additional reading pieces, contemporary films, and German history study.			

<b>Spanish I</b>			
Grades: 7, 8, 9, 10, 11, 12	Credits: 1	2 semesters (Full year)	Fees: \$0
Prerequisite: None			
Spanish I is an introductory course to teach the mechanics and principles of the Spanish language. Further, the course will explore the culture of the Spanish-speaking world. The emphasis is on Spanish as a spoken language. The students develop skills in speaking, listening, reading, and writing Spanish. <b><u>*Teacher will be speaking in Spanish and English.</u></b>			

<b>Spanish II</b>			
Grades: 8, 9, 10, 11, 12	Credits: 1	2 semesters (Full year)	Fees: \$10
Prerequisite: Spanish I			
Spanish II is a continuation of the concepts learned in Spanish I, with more emphasis on producing language in real-world situations. Students will be expected to listen to the teacher in Spanish. The course offers further study and practice in speaking, listening, reading, and writing Spanish. There is also further study of the cultures and civilizations of the Spanish – speaking world. This course requires students to spend time outside of the regular class period working on their language skills to experience success. <i>Teacher will be speaking in Spanish.</i>			

<b>Spanish III</b>			
Grades: 9, 10, 11, 12	Credits: 1	2 semesters (Full year)	Fees: \$10
Prerequisite: Spanish II			
A continuation of Spanish II, the course offers further study and practice in speaking, listening, reading, and writing Spanish. There is also further study of the cultures and civilizations of the Spanish – speaking world. This course should be considered for students who are planning on attending a university or college. <i>Teacher will be speaking in Spanish.</i>			

<b>Dual Enrollment Spanish IV</b>			
Grades: 10, 11, 12	Credits: 1 per semester (add on .050)	2 semesters (Full year)	Fees: \$0
Prerequisite: Spanish III and/or teacher recommendation			
A continuation of Spanish III, the course offers further study and practice in speaking, listening, reading, and writing Spanish. There is also further study of the cultures and civilizations of the Spanish – speaking world. This course is offered as Dual Enrollment Spanish 101 and 102 through Cincinnati State for 8 college credits. <i>Teacher will be speaking in Spanish.</i>			



# Butler Tech

Courses offered at Monroe High School

## Family and Consumer Sciences

All students can benefit from Family and Consumer Sciences courses. The classes are designed to meet the needs of all different types of learners. Students will learn skills for managing individual and family needs, problem solving, setting goals, and being a leader. Students will experience a variety of teaching techniques: small group activities, presentations, hands-on projects, classroom discussions, labs, field trips, and community involvement. In each course, all students are required to complete a final semester culminating course project and group community service project. Through integrated classroom activities students will be given the opportunity to participate in Family, Career, and Community Leaders of America (FCCLA), a youth leadership organization.

<b>Consumer Economics</b>			
Grades: 10, 11, 12	Credits: 0.50	1 semester (Half year)	Fees: \$0
Prerequisite: None			
Practical money management is a skill that will last a lifetime. Students will study practical decision-making tools to help you reach financial goals, managing income and expenses, banking, wise use of credit, shopping strategies and financial career options. Additional topics include consumer behavior and public policy. Students will have the opportunity to be involved in Family, Career and Community Leaders of America (FCCLA) state and national organization.			

<b>Culinary Fundamentals</b>			
Grades: 9, 10, 11, 12	Credits: 0.50	1 semester (Half year)	Fees: \$0
Prerequisite: None			
Introduction to basic cooking skills. Learn proper knife skills, food nutrition, basic food science principles, and cooking techniques such as sauté, poach, braise, and roast. Safe food handling and equipment usage are also introduced. Students will have the opportunity to be involved in Family, Career and Community Leaders of America (FCCLA) state and national organization.			

## Project Lead the Way – Engineering

<b>PLTW IED - Engineering Design</b>							
Grades: 9, 10	Credits: 1	2 semesters (Full year)	Fees: \$0				
Prerequisite: Course <b>relies on math and science concepts</b> . <i>Prior or concurrent enrollment in Algebra I is recommended but not required</i>							
<p>This full year course uses a project based learning approach to teach engineering design principles. Students will encounter instant challenges, cardboard bridge, cardboard chair, and CO2 Dragster challenges to teach proper documentation, technical sketching, statistics, geometric modeling, reverse engineering, team dynamics, and computer animated drawing (CAD). Students who took Design and Modeling in Junior High School will enjoy this class.</p> <p>Engineering Design is a <b>Transcripted Credit</b> course through a partnership with Sinclair Community College. A student that passes this course with a B or higher and meets Sinclair’s criteria could earn 4 college credits for this course.</p> <p><u>Sinclair Course Title</u></p> <table border="1"> <tr> <td><b>MET</b></td> <td><b>1231</b></td> <td><b>Introduction to Drafting &amp; Design Using Inventor (formerly MET 1101 and MET 1201)</b></td> <td><b>4</b></td> </tr> </table>				<b>MET</b>	<b>1231</b>	<b>Introduction to Drafting &amp; Design Using Inventor (formerly MET 1101 and MET 1201)</b>	<b>4</b>
<b>MET</b>	<b>1231</b>	<b>Introduction to Drafting &amp; Design Using Inventor (formerly MET 1101 and MET 1201)</b>	<b>4</b>				
This course is also eligible for <b>CTAG credit</b> , eligible for transfer to public colleges and universities in the state of Ohio. Please see the course instructor for detailed information regarding this credit transfer option.							

<b>PLTW POE - Principles of Engineering</b>							
Grades: 10, 11, 12	Credits: 1	2 semesters (Full year)	Fees: \$0				
Prerequisite: Successful completion of Introduction to Engineering Design							
<p>This full year project based course uses problems that engage and challenge students to explore a broad range of engineering topics. Topics include mechanisms, the strength of materials and structures, automation, and motion. Students develop skills in problem solving, research and design while learning strategies for design process documentation, collaboration, and presentation. Robotics are a major theme in this course.</p> <p>Principles of Engineering is a <b>Transcripted Credit</b> course through a partnership with Sinclair Community College. A student that passes this course with a B or higher and meets Sinclair’s criteria could earn 2 college credits for this course.</p> <p><u>Sinclair Course Title</u></p> <table border="1"> <tr> <td><b>MET</b></td> <td><b>1241</b></td> <td><b>Principles of Engineering (POE)</b></td> <td><b>2</b></td> </tr> </table>				<b>MET</b>	<b>1241</b>	<b>Principles of Engineering (POE)</b>	<b>2</b>
<b>MET</b>	<b>1241</b>	<b>Principles of Engineering (POE)</b>	<b>2</b>				

## Civil Engineering and Architecture - CEA

Grades: 11, 12	Credits: 1	2 semesters (Full year)	Fees: \$0
----------------	------------	-------------------------	-----------

Prerequisite: Successful completion of Principles of Engineering

This full year course is designed students apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architectural design software in this full year course. Through project based learning students will encounter building design in residential and commercial, cost efficiency, structures, services and utilities. The course completion involves a large scale commercial design problem that students will need to solve.

Civil Engineering and Architecture is a **Transcripted Credit** course through a partnership with Sinclair Community College. A student that passes this course with a B or higher and meets Sinclair's criteria could earn 2 college credits for this course.

### Sinclair Course Title

CAT	1161	Introduction to Civil & Architectural Technology (CEA)	2
-----	------	--	---

## Career Based Intervention Program

### Career Based Intervention Program with Work Based Component

Grades: 11,12	Credits: 4 (two courses)	2 semesters (Full year)	Fees: \$0
---------------	--------------------------	-------------------------	-----------

Prerequisite: None

Eligibility: Students must meet at least one of the following criteria to be eligible for this program: 1) economically disadvantaged or 2) credit deficient. Students are selected for the program based on need.

The Career Based Intervention Program is a career-technical program designed for students in 12th grade who are eligible based on academic and/or economic need. The CBI Program is designed to help students improve academic competence, graduate from high school, develop employability skills, set goals and implement a career plan, and participate in a career pathway in preparing for postsecondary education and future careers.

This program provides students with an opportunity to meet the academic needs for graduation while allowing for students to maintain appropriate employment within the business world. Students must meet the criteria set by the Butler Technology and Career Development Schools for both employment and academic eligibility.

**Admission Requirements:** Scores below the 25th percentile on standardized achievement or aptitude test; has a current secondary school GPA below a 2.0 on a 4.0 scale and/or math, reading or writing deficiencies below grade level; and/or qualifies per economic conditions.

Students earn 4 credits total for the completion of two courses:

1) COOP, 2) Related. COOP Course - 3 credits (1.5 per semester); Related Course - 1 credit (1/2 per semester)

## Butler Tech

Butler Tech offers several “College Tech Prep” programs at four campus locations (Fairfield Township Campus (DRL and SOA) Monroe Campus (NSC), and West Chester Campus (BSC)). Programs identified as “**College Tech Prep**” prepare students for the technical occupations of the future. It is an option which combines secondary education and higher education leading to an associate degree or beyond. College Tech Prep program integrates academic, occupational and employability competencies at all educational levels. Curriculum competencies are designed jointly by local business, industry, and labor representatives along with high school teachers and college faculty.

### College Tech Prep Programs

<p><b>Monroe Campus</b>  <b>NATURAL SCIENCE CENTER</b>  <b>Counselor:</b> Amanda Howard  <a href="mailto:howarda@butlertech.org">howarda@butlertech.org</a></p> <ul style="list-style-type: none"> <li>● Equine Science</li> <li>● Landscape Design &amp; Construction</li> <li>● Veterinary Science</li> </ul>	<p><b>Fairfield Township Campus</b>  <b>D. RUSSEL LEE</b>  <b>Counselors:</b> Penny Osborne, <a href="mailto:osbornep@butlertech.org">osbornep@butlertech.org</a>  and Tracy Donovan, <a href="mailto:donovantl@butlertech.org">donovantl@butlertech.org</a></p> <ul style="list-style-type: none"> <li>● Auto Collision Technology</li> <li>● Automotive Technology</li> <li>● Aviation Technology</li> <li>● Construction</li> <li>● Cosmetology</li> <li>● Criminal Justice</li> <li>● Culinary Arts</li> <li>● Digital Media</li> <li>● Firefighting Technology</li> <li>● Graphic Design</li> <li>● Information Technology</li> <li>● Mechatronics</li> <li>● Precision Machining</li> <li>● Welding Technology</li> </ul>
<p><b>West Chester Campus</b>  <b>BIOSCIENCE CENTER</b>  <b>Counselor:</b> Laurie Mischell  <a href="mailto:mischelll@butlertech.org">mischelll@butlertech.org</a></p> <ul style="list-style-type: none"> <li>● PLTW Biomedical Science</li> <li>● Dental Science</li> <li>● Exercise Science</li> <li>● Healthcare Science</li> </ul>	
<p><b>Fairfield Township Campus</b>  <b>SCHOOL OF THE ARTS</b>  <b>Director:</b> Patrick Cifuentes  <a href="mailto:cifuentesp@butlertech.org">cifuentesp@butlertech.org</a></p> <ul style="list-style-type: none"> <li>● Dance</li> <li>● Instrumental Music</li> <li>● Theatre</li> <li>● Visual Art and Design</li> <li>● Vocal Music</li> </ul>	

**Considering Butler Tech for your junior year?**

[Click here to find out more information about the application process.](#)