JACKSON-MILTON HIGH SCHOOL

PROGRAM OF STUDIES
2026/2027

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INTRODUCTION:

The right to choose has made the United States of America the land of opportunity. However, this right places a heavy obligation upon those who would become good citizens. It requires thoughtful care and planning as well as knowledge of one's abilities, interests, aims, and ambitions. Knowledge of self is an ongoing, never-ending task.

Students entering ninth grade should be formulating tentative educational and career plans. The thoughtful student considers the requirements for graduation and his/her career objectives and weaves them into a pattern that best satisfies his/her particular needs. The Guidance Counselor will assist each student in his/her planning.

Each year JM's counselor meets with students to listen and advise so that they will make choices to fulfill their needs as well as satisfy state and local requirements for a Jackson-Milton High School Diploma. Those students attending the **Mahoning County Career & Technical Center (MCCTC)** during the last two years of school must satisfy the requirements of and be graduates of Jackson-Milton High School.

For more information about Jackson-Milton High School please visit http://www.jacksonmilton.k12.oh.us

JACKSON-MILTON HIGH SCHOOL MISSION STATEMENT:

Our commitment is to partner with our families and community to empower Jackson-Milton students to be lifelong learners by promoting and maintaining high standards and expectations.

REQUIREMENTS FOR GRADUATION AT JACKSON-MILTON HIGH SCHOOL:

(To access information about earning an Ohio Diploma, visit the Ohio Department of Education @ www.ode.state.oh.us

I. The Jackson-Milton Board of Education requires that students successfully meet the following requirements in order to graduate from Jackson-Milton High School:

***Must have earned a minimum of twenty (20) total credits:**

1. English	4.0 Credits
2. Mathematics	4.0 Credits
3. Science	3.0 Credits
4. Social Studies	3.0 Credits
5. Health	0.5 Credit
6. Physical Education	0.5 Credit
7. Electives	5.0 Credit
8. Personal Finance	0.5 Credit
9. Fine Arts	1.0 Credit (7th-12th grade)

II. Graduation Test Requirements for Graduating Classes of 2023 and Beyond:

For students who enter grade 9 on or after July 1, 2019, all students must take end of course exams in: algebra I, geometry, English language arts II, biology, American government and American history. English language arts I is no longer a required exam.

Changes to Ohio's Graduation Requirements:

Ohio law recently changed graduating requirements for students in the classes of 2021 and beyond. Students in the classes of 2021 and 2022 may meet the new requirements or one of the original three pathways that were in place when they entered grade 9. Students in the classes of 2023 and beyond (those who entered grade 9 on or after July 1, 2019) must meet the new requirements. **Ohio's new graduation requirements (classes of 2023 and beyond) consist of three key components:**

1. Course Completion:

Students will satisfy curriculum requirements (same as found on page 2). The graduation course requirements will not change.

2. Competency Demonstration

Students must earn a "competency" score on the English language arts II and Algebra I end-of-course tests or through alternative demonstrations, which include College Credit Plus, career-focused activities or military enlistment.

***For the English language arts I test, the competency score is 684.**

***For the Algebra I test, the competency score is 684.**

3. Readiness Demonstration

Students will demonstrate readiness for their post-high school paths by earning at least two diploma seals, one of which must be state defined. Jackson-Milton High School also offers three local seals, where a student may choose one (only one) to count as a diploma seal.

To access more information about the new graduation testing requirements, visit the Ohio Department of Education: www.ode.state.oh.us

State-Defined Diploma Seal Requirements: The following state seals are as defined:

1. Military Enlistment Seal:

Provide evidence that a student has enlisted in a branch of the U.S. Armed Forces; or participate in an approved JROTC program.

2. Technology Seal:

A student can:

1. Earn a score that is at least equivalent to proficient on an appropriate Advanced Placement or International Baccalaureate exam;
2. Earn a final course grade that is equivalent to a "B" or higher in an appropriate class taken through the College Credit Plus program; or
3. Complete a course offered through the district or school that meets guidelines developed by the Department. (A district or school is not required to offer a course that meets those guidelines.)

3. Industry-Recognized Credential Seal:

Earn a 12-point approved industry-recognized credential or group of credentials totaling 12 points in a single career field.

4. **Citizenship Seal:**

A student can:

1. Earn a score of proficient or higher on both the American history and American government end-of-course exams;
2. Earn a score that is at least equivalent to proficient on appropriate Advanced Placement or International Baccalaureate exams; or
3. Earn a final course grade that is equivalent to a "B" or higher in appropriate classes taken through the College Credit Plus program.

5. OhioMeansJobs-Readiness Seal:

Meet the requirements and criteria established for the readiness seal, including demonstration of work-readiness and professional competencies.

6. State Seal of Biliteracy:

Meet the requirements and criteria, including proficiency requirements on assessments in a world language and english.

7. College-Ready Seal:

Earn remediation-free scores on the ACT or SAT. Visit the Department's website to see current remediation-free scores.

8. Science Seal:

A student can:

1. Earn a score of proficient or higher on the biology end-of-course exam;
2. Earn a score that is at least equivalent to proficient on appropriate Advanced Placement or International Baccalaureate exams; or
3. Earn a final course grade that is equivalent to a "B" or higher in an appropriate class taken through the College Credit Plus program.

9. Honors Diploma Seal:

Earn one of six Honors Diplomas outlined below:

1. Academic Honors Diploma;
2. International Baccalaureate Honors Diploma;
3. Career-Tech Honors Diploma;
4. STEM Honors Diploma;
5. Arts Honors Diploma;
6. Social Science and Civic Engagement Honors Diploma.

Locally Defined Diploma Seals – The following local seals are as defined:

1. Community Service Seal: (locally defined)

Complete a community service project aligned with the guidelines adopted by the school district's local board of education or school governing authority.

2. Student Engagement Seal: (locally defined)

Participate in extracurricular activities such as athletics, clubs or student government to a meaningful extent, as determined by guidelines adopted by the school district's local board of education or school governing authority.

3. Fine and Performing Arts Seal: (locally defined)

Demonstrate skill in the fine or performing arts according to an evaluation aligned with guidelines adopted by the school district's local board of education or school governing authority.

Valedictorians (Original criteria ending with class of 2030)

The title of valedictorian is used to distinguish individuals who have achieved the highest level of academic excellence. Students who earn a 4.0 GPA, through the seventh semester of high school, will receive valedictorian designation.

Salutatorians

The title of salutatorian is used to distinguish individuals who have achieved a high level of academic merit. Students who earn only one "B" grade, with all other grades of "A," through the end of their seventh semester of high school will receive salutatorian designation. Ties will be determined by using the quality point system established by points assigned to the grades earned.

PROPOSED VALEDICTORIAN/SALUTATORIAN REQUIREMENTS (BEGINNING WITH THE CLASS OF 2030

Valedictorian/Salutatorian

In an effort to recognize academic excellence at Jackson-Milton High School, a class valedictorian(s) /salutatorian will be chosen.

The following criteria will be used to determine Valedictorian/Salutatorian

1. Valedictorian will be a graduating senior having the highest grade point average.
2. In case of ties or equal GPAs,Co-Valedictorians will be named.

To qualify for Valedictorian/Salutatorian a student must:

1. Be enrolled as a student at Jackson-Milton High School by the first day of their Junior year.

Participate and earn credit in the following courses:

1. **Four units of English**
2. **Four units of Math including Calculus and CCP Math (internal) from the college preparatory offerings.**
3. **Four units of Science; including 2 units of advanced science such as: General Chemistry,Physics, Anatomy/Physiology.**
4. **Four units of Social Studies.**
5. **Three units of a World Language. Three sequential units of one world language, or no less than 2 sequential units of two world languages studied. If taking CCP language courses they cannot be introductory courses unless taking all CCP courses sequentially**
6. **College Credit Plus classes that are approved can be substituted for any class listed above. If Jackson-Milton offers a CCP class with our instructors it must be taken at Jackson-Milton.**
7. **All other required courses set forth by the Jackson-Milton Board of Education.**

Career Center Students

Participate and earn credit in the following courses:

1. **Four units of English**
2. **Four units of Math, the fourth unit of math must be sequentially higher than Algebra II.**
3. **Four units of Science; including 2 unit of advanced science such as: General Chemistry , Physics, Anatomy/Physiology.**
4. **Three units of Social Studies.**
5. **Two units of a World Language. If taking CCP language courses they cannot be introductory courses unless taking all CCP courses sequentially**
6. **Four units of Career-Tech Courses**
7. **Earned a cumulative score of proficient or higher on the technical assessments aligned to their program**
8. **Meet requirements to earn the Industry Recognized Credential Seal or Technology Seal**
9. **College Credit Plus classes that are approved can be substituted for any class listed above.**
10. **All other required courses set forth by the Jackson-Milton Board of Education.**

Salutatorian will be the student with the second highest cumulative grade point average and highest quality points

STUDENT SCHEDULING PROCEDURE:

The counselor and/or principal will meet with all students to explain course requirements and available classes, including electives.

*** Student will then discuss course selections with their parents and have them sign the Course Requests Form.**

***Students without parental signatures will schedule last.**

NO CHANGES TO:

English, Math, Social Studies or Science Classes once placed

Course selections should be made with care and concern for the student's realistic objectives. No course selections will be altered in order to switch instructors. We strive to schedule students in the classes they select; however, due to class size constraints and/or other unforeseen scheduling concerns, the administration may change student's schedules as the need arises. The necessity of changing schedules can be best avoided by making initial decisions that are realistic, wise, and informed. Schedule changes should be made only when absolutely necessary and only with proper approval. The Jackson-Milton School District retains the right to cancel any class due to low enrollment or other unforeseen circumstances. Students and parents shall be advised and every attempt shall be made to make necessary accommodations.

Schedule changes will be made on a limited basis as needed per class space available, impact of credits on athletic eligibility, and the discretion of the administration.

NOTE TO TEACHERS:

*A student has not officially dropped a class until a schedule change has been processed.

STUDENT SCHEDULE CHANGE REQUEST:

Please remember this is a request **only** form. Your request is step one of a 4 step process that must be done in order; at any step of the process, request may be denied.

Name: _____ Date: _____

Requesting Changes:

Step 1: (Student's Responsibility) - You must have a class to add in order to request a drop.

Drop: Add:

Class: _____ Period: _____ Class: _____ Period: _____

Reason for Request: _____

_____

_____

Student Signature: _____

**PROCEED TO STEPS 2-4 ONLY IF PERMITTED*

**TO BE ASSIGNED A TEACHERS AIDE, YOU MUST HAVE A TEACHER'S SIGNATURE*

Step 2: (Teacher's Responsibility)
I approve this student to be my teacher aide

Teacher's Signature: _____ Date: _____

Step 3: (Counselor's Responsibility)
This course change will not affect the graduation schedule of the student

Counselor's Signature: _____ Date: _____

Step 4: (Parent's Responsibility)
Parent's Signature: _____Date:_____

STUDENT SCHEDULE CHANGE REQUEST:
Please remember this is only a request form. Your request is step one of a 4-step process that must be done in order; at any step of the process, request may be denied.

ACADEMIC HONORS DIPLOMA

Requirements	State Minimum
1 Math	Fourth math must be > Algebra 2
2 Science	One additional unit Advanced Science
3 Social Studies	One additional unit Social Studies
4 World Languages	Three sequential units of one world language, or no less than 2 sequential units of two world languages studied
5 GPA	3.5 on a 4.0 scale
6 ACT/SAT	ACT: Score of 27 or higher, SAT: Score of 1280 or higher
7 Seal Requirement	Earn two additional diploma seals, not including Honors Diploma Seal
8 Experiential Learning	Field Experience & Portfolio, OhioMeansJobs Readiness Seal*, or Work-Based Learning

*Students can use OMJ Readiness Seal in 2 additional seals requirement if it is not used in Experiential Learning.

Student Strength Demonstration Replacement

Students can use the Student Strength Demonstration to replace one of either the **ACT/SAT, GPA *or* World Language** requirement for any Honors Diploma. The Student Strength Demonstration options are listed below. The same options exist for each of the six honors diplomas* but, where relevant, should reflect coursework or experiences relevant to the theme of the Diploma. For example, a student earning the Academic Honors Diploma and using the College Credit Plus option to replace another requirement for the diploma should have College Credit Plus courses relevant to the Academic Honors diploma.

OPTIONS:

College Credit Plus: 12 total College Credit Plus credit hours

Advanced Placement: three courses with score of 3 or higher on AP tests

Career-Technical Assurance Guide (CTAG): 12 total credits

Apprenticeship/Pre-Apprenticeship: Completion or Evidence of Acceptance if required to be older than 18

WorkKeys: Score of 6 or higher on all tests (*void for Career-Tech Honors Diploma)

Armed Services Vocational Battery: Score of 50 or above on the ASVAB

Work-Based Learning: 250 total hours of work-based learning

STEM Honors Diploma **- Students must meet all but one of the following criteria. Students must meet general graduation requirements to qualify for honors diplomas.**

STEM HONORS DIPLOMA	
Math	5 units
Science	5 units, including 2 units of advanced science
Social Studies	3 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
Electives	2 units with a focus in STEM
GPA	3.5 on a 4.0 scale
ACT/SAT	ACT: 27 or higher/SAT: 1280 or higher
Field Experience	Complete a field experience and document the experience in a portfolio specific to the student's area of focus
Portfolio	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus

***Arts Honors Diploma*-Students must meet all but one of the following criteria. Students must meet general graduation requirements to qualify for honors diplomas.**

ARTS HONORS DIPLOMA	
Math	4 units
Science	3 units, including 1 unit of advanced science
Social Studies	3 units
World Languages	3 units of one world language, or no less than 2 units of each of two world languages studied
Fine Arts	4 units
Electives	2 units with a focus in fine arts
GPA	3.5 on a 4.0 scale
ACT/SAT	ACT: 27 or higher/SAT: 1280 or higher
Field Experience	Complete a field experience and document the experience in a portfolio specific to the student's area of focus
Portfolio	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus

***Social Science and Civic Engagement Honors Diploma*-Students must meet all but one of the following criteria. Students must meet general graduation requirements to qualify for honors diplomas.**

SOCIAL SCIENCE AND CIVIC ENGAGEMENT HONORS DIPLOMA	
Math	4 units
Science	3 units, including 1 unit of advanced science
Social Studies	5 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

Electives	3 units with a focus in social sciences and/or civics
GPA	3.5 on a 4.0 scale
ACT/SAT	ACT: 27 or higher/SAT: 1280 or higher
Field Experience	Complete a field experience and document the experience in a portfolio specific to the student's area of focus
Portfolio	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus

***Career Tech Honors Diploma*-Students must meet all but one of the following criteria. Students must meet general graduation requirements to qualify for honors diplomas.**

CAREER-TECH HONORS DIPLOMA	
Math	4 units
Science	4 units, including 2 units of advanced science
Social Studies	4 units
World Languages	2 units of one world language
Electives	4 units of career-technical courses
GPA	3.5 on a 4.0 scale
ACT/SAT/WorkKeys	ACT: 27 or higher/SAT: 1280 or higher/WorkKeys: 6 or higher on Reading for Information and 6 or higher on Applied Mathematics
Field Experience	Complete a field experience and document the experience in a portfolio specific to the student's area of focus.
Portfolio	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus.
Additional Assessments	Earn an industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent.

College Credit Plus (CCP):

This program allows students in grades 7 through 12 to enroll on a part time or full time basis in nonsectarian courses at any state assisted college or university or any institution holding a certificate of authorization to award degrees issued by the Ohio Board of Regents.

Option A allows a student to enroll at a College/University and earn college credit only. *The student is responsible for all college costs*. **Option B** allows a student to enroll at College/University and earn high school and college credit simultaneously. *The student is not responsible for cost associated with enrolling at the college/university.* The Guidance Counselor will conduct a parent meeting in February, the night of parent-teacher conferences. If a student is interested in CCP coursework it is very important to attend this meeting. For additional information contact the Guidance Counselor.
*Qualified students can earn college credit before graduation.

Examples of possible CCP pathways:
PATHWAYS
The College Credit Plus program requires each participating Institution of Higher Education partner to establish 15- and 30-credit hour pathways for high schools to offer their students ensuring they are taking general education courses that are transferable and fulfill general elective requirements at any Ohio public college or university.

Sample 15 – Credit Hour Pathway

Course Number	Course Name	Credits
ENG101	English Composition I	3
MTH120	College Algebra	4
COM101	Public Speaking	3
PSY101	General Psychology	3
ENG102	English Composition II	3
Total Credit Hours		16

Sample 30 – Credit Hour Pathway

Course Number	Course Name	Credits
ENG101	English Composition I	3
MTH120	College Algebra	4
COM101	Public Speaking	3
BIO114	Principles of Biology I	4
PSY101	General Psychology	3
ENG102	English Composition II	3
ENG254	American Literature I	3
BIO115	Principles of Biology II	4
SOC101	Introduction to Sociology	3
Total Credit Hours		30

Jackson-Milton Local School District
College Credit Plus Promise to Repay Contract
(Based on Final Grade or Late Withdrawal)

Student Name: _____ Student ID#: _____ DOB: ___/___/___

Current Grade: _____ Phone Number: _____

Address: _____

Parent/Guardian Name: _____

Address (If different from student): _____

Student wishes to participate in the _____ program during the _____ school year.

THIS AGREEMENT WILL COVER ALL POST-SECONDARY CLASSES TAKEN WHILE ATTENDING THIS HIGH SCHOOL FOR THIS SCHOOL YEAR.

Jackson-Milton District will pay full tuition and for the required textbook. However, if the student fails the course, earns a D for the final grade, or withdraws after the college census date, the student is required to reimburse the district for the full tuition and textbook costs.

High School: Jackson-Milton

Your signature below indicates that you agree to the following:

- ✓ **Reimbursement will be made to the district within five weeks of the end of the semester for the amount of tuition paid for the above-named student if the student fails any course or withdraws after the census date without the written consent of the high school principal.**
- ✓ **Failure to make reimbursement under the above-specified conditions will result in the tuition amount being added to the student's fees. If fees are not paid, the student may be restricted from participating in graduation ceremonies and will not be issued a final transcript or diploma.**
- ✓ **I understand that the college courses will be included in my high school GPA and be seen on my transcripts as both college courses and high school courses.**

Student signature: _____ Date: _____

Parent/Guardian signature: _____ Date: _____

Guidance signature: _____ Date: _____

***THIS FORM IS TO BE RETAINED BY THE HIGH SCHOOL FOR TUITION COLLECTION IF NECESSARY**

CREDIT FLEXIBILITY:

Credit Flexibility is a way for students to earn high school credit. Directed by Ohio Senate Bill 311(Ohio Core Legislation), the State Board of Education adopted a plan that allows students in all grades to earn high school credits in ways other than the traditional coursework and classroom instruction. This credit flexibility plan allows students to earn graduation credit through one of the following options:

1. Successfully completing coursework
2. Testing out or showing mastery of course content
3. Pursuing an educational option and/or an individually approved plan
4. Any combination of the above options

The purpose of the credit flexibility option is to develop learners who plan their own learning, including learning objectives connected to academic standards, and a plan whereby they will attain those objectives outside of the traditional classroom. This procedure provides for personalized educational options for students in which they will identify, acquire, and demonstrate competency in a given content area to earn graduation credit.

If interested in this educational opportunity, please schedule an appointment with the guidance department to discuss your options.

COURSE FEES:

All high school students will be required to pay a $25.00 school fee each year in high school. If school fees are not paid by the end of the 1st nine weeks, report cards will be held and ProgressBook will be disabled. Notices will be sent informing students and parents of the amount of unmet obligations Seniors will not receive their diploma until all obligations are met**. In case of financial hardship, please see the School Principal.**

ATHLETIC ELIGIBILITY:

Athletic eligibility for athletes is determined from the preceding nine-week grading period. The Jackson-Milton Local Schools comply with state mandates and have adopted a minimum grade point average and course load for participation in athletics. Students must maintain a minimum 1.0 grade point average, passing 5 units of credit equivalency. Once a student attains the age of 20, the student will no longer be eligible for interscholastic athletic competition notwithstanding where that 20th birthday falls in relation to the sports season. (CCP courses are counted as 2 units)

NCAA CLEARINGHOUSE/COLLEGE DIVISION I OR II:

In order to practice, compete, and receive scholarships at NCAA institutions, students must be certified by the NCAA Initial Eligibility Clearinghouse. Clearinghouse forms are available at https://web3.ncaa.org/ecwr3/. Applications cannot be sent before the end of a student's junior year. When taking the ACT or SAT you may have scores sent directly to the NCAA Clearinghouse by using their 4-digit code "9999".

To be certified at Division I schools, students must:

1. Graduate from high school
2. Attain a minimum GPA ranging from 2.00 to 2.50 – depending on ACT or SAT I scores – in 13 approved core courses:

   4 ENGLISH
   2 MATH (Algebra I or above)
   2 SCIENCE (life & physical science, including 1 lab)
   1 Additional of ENGLISH, MATH, or SCIENCE
   2 SOCIAL STUDIES
   2 Additional from ENGLISH, MATH, SCIENCE, SOCIAL STUDIES, FOREIGN LANGUAGE, or COMPUTER SCIENCE

   Generally, only courses considered to be academic or college preparatory will be certified by the NCAA as a core course. For a complete listing online at www.ncaa.org (school code is 363-840).

GUIDANCE INFORMATION:

PLANNING FOR COLLEGE: ACADEMIC PREPARATION:

Most colleges and universities either require or strongly recommend that students take a college preparatory course of study while in high school. Although some universities may require less, the "core curriculum" that will meet *general course requirements for unconditional admission to any state university in Ohio* is as follows:

4 ENGLISH
4 MATH (Algebra I and II, and Geometry)
3 SCIENCE (at least 2 lab sciences)
3 SOCIAL STUDIES
2 FOREIGN LANGUAGE (same language)
1 FINE or PERFORMING ART

The "core curriculum" should be supplemented with electives based on ability and interest. An extensive background in science and math is required for the competitive engineering field. Biology, physiology, and chemistry, in addition to others, are important for students interested in the area of health care. Some institutions strongly encourage students to take a unit of math during the senior year. Currently, ten state universities have a fine arts recommendation or requirement for unconditional admission.

Students with course deficiencies may/will be admitted, but the deficiencies usually must be corrected. The methods by which deficiencies are corrected vary. Often the student is required to take the appropriate (deficient) college level course as a freshman. Courses taken to correct deficiencies do not usually count toward degree requirements. Some institutions offer "developmental" courses in place of specific course requirements.
Academic preparation for private colleges and universities are usually similar to that provided by the "core curriculum" but may depend upon the level of competitiveness.

COLLEGE REPRESENTATIVES AND VISITS:

Between twenty and thirty *college representatives* annually visit Jackson-Milton High School. Interested students must sign up in the guidance office prior to meeting with these representatives. Students must either have a study hall or the permission of the teacher if a class will be missed. Students are responsible for any missed work, and should not abuse this privilege. This privilege is reserved for junior and senior students. These students should be well behaved.

College Visitations are considered an excused absence. Juniors and Seniors are awarded *two* visitations *per year, they are not considered cumulative*. Parental permission and notification should be given to the attendance secretary. When the student returns from the college visit he/she should give to the secretary a signed paper from the school visited on their letterhead stating that you were there on the particular date. This information should be given to the attendance secretary

APPLICATION and ADMISSIONS:

Applications are available online. Students should follow the directions included with the application. All colleges require an official transcript to be sent. This requires an official seal mark on the transcript and must be mailed by the guidance counselor. Students must fill out the forms, including a signature to release transcripts.

Application should generally be mailed by Christmas vacation of the senior year. Early admission, NEOUCOM, military academies, ROTC, selective majors and other similar situations may require separate application; contact your post-secondary institution for appropriate deadlines and specifics.

The criteria used for college admissions includes *quality of courses taken*, grades, admission test scores, class rank, and in some cases recommendations, activities, and special talents. Recent trends indicate that colleges and universities which have restrictive criteria for admittance take a close look at the courses a student takes, especially during his/her senior year of studies. It is extremely important that students work to the best of their ability from the very beginning of the high school experience.

FINANCIAL AID:

Financial aid includes grants, scholarships, loans, and work-study. A meeting is held each year on an evening to discuss the various types of financial aid and the awarding process. Any student, family member, or community individual is welcome to attend.

Application for the great majority of financial aid takes place in the fall and winter of the student's senior year. Applications for Ohio and Federal grants will not be processed until after January 1 for the senior year. Materials are available in the guidance office and online at www.fafsa.ed.gov

ALTERNATIVE TO COLLEGE:

Among the alternatives to a four-year college degree are: one-year certificates, two-year associate degrees, technical school programs such as business, art, computers, nuclear medicine or electronics, or military services. Information about these programs can be obtained in the guidance office.

CLASS RANK/GRADE POINT AVERAGE (GPA):

Class rank and GPA are based on accumulated, weighted points known as quality points. Class rank and GPA are calculated at the end of each year in high school. For the senior year it is calculated at the end of the first semester. The grades of students transferring to the high school from a chartered school will be recognized; however, such students will have no established class rank for purposes of graduation honors such as Valedictorian, etc., until such time as they have completed three (3) semesters.

Quality points are determined by assigning credit by the value of the grade earned. These grade value scales are used for ranking purposes. Quality points are awarded based on the grade earned in the class and the amount of credit available for the course. Quality points of a 1.00 credit class and .50 credit class are different even for the same grade. The total amount of quality points is divided by the amount of credits the student has earned. The following illustrates grade values:

1.00 CREDIT COURSE	.50 CREDIT COURSE	.25 CREDIT COURSES
A = 4	A = 2	A= 1
B = 3	B = 1.5	B= .75
C = 2	C = 1	C= .5
D = 1	D = .5	D= .25

***Any courses in which "P" grades are earned are not considered into GPA or Class Rank.**

ADMISSION TESTING:

It is recommended that college-bound students take the PSAT, a practice for the SAT I and qualifier for the National Merit Scholarship Program, in the fall.

It is also encouraged that Sophomores and Juniors begin taking their college admission tests, the **ACT** and **SAT I**, in the Spring. JMHS pays the registration fee for the ACT test (one time) for all juniors in the spring of their junior year. A student may take their college tests as often as he/she would like. It is beneficial to take them multiple times to increase his/her scores, which aids in acceptance to colleges/universities and helps to secure many types of scholarships. Students apply online at

www.actstudent.org (or) www.collegeboard.com

The ACT or SAT I should be taken no later than in the fall of a student's senior year. Although most colleges in Ohio will accept results from either test, applicants to state universities most often take the ACT. Highly competitive private colleges usually require the SAT I and may also require the SAT II. The SAT II is a subject area specialty test; ask your college if you need to take this test.

Only ACT scores are used in the calculations for the Ohio Academic Scholarship. It is very important to contact the school(s) in which the student is interested in, schools outside of Ohio may require specifically one test or the other to be taken (either ACT or SAT); some schools are more particular.

The ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB) is a multi-aptitude test battery that is designed to measure an individual's aptitude at a particular point in time. It consists of ten short individual tests covering

verbal and math skills, mechanical knowledge, electronics, and several other areas. It is offered at no cost or obligation to high school students. An individual's decision to enter college, technical, or vocational school, military service or the civilian world of work is an important one. The ASVAB Career Exploration Program is designed to help, no matter what future educational and career plans you may be considering.

You can use your ASVAB results with *Exploring Careers: The ASVAB Workbook.* Every student who takes the ASVAB receives a copy of the Workbook. It has a series of activities that will enable you to match your interests, abilities, and personal preferences to over 200 civilian or military occupations. If you are a junior or senior you can use scores from your ASVAB to enlist in the military after graduation. However, you are under no obligation to join the military as a result of taking the ASVAB. Many students take the ASVAB for career exploration and have no interest in the Armed Services.

TEST	TEST DATE	REGISTRATION DEADLINES
ASVAB	February 2025	

Jackson-Milton High School Code Number (CEEB CODE) for both the ACT and SAT I is 363-840

ACT TESTING SCHEDULE (2025- 2026) – SUBJECT TO CHANGE:

2026/2027 National Test Dates Schedule

Test Date	Regular Registration Deadline Late Fee Applies After This Date	Late Registration Deadline	Photo Upload and Standby Deadline
September 19, 2026	August 14	September 1	October 6
October 17,2026	September 11	September 29	October 27

December 12, 2026	**November 6**	**November 29**	**December 22**
February 27, 2027	**January 22**	**February 9**	**March 16**
April 10, 2027	**March 5**	**March 23**	**April 20**
June 12, 2027	**May 7**	**May 25**	**June 22**
July 10, 2027	**June 4**	**June 22**	**July 20**

***No test centers are scheduled in New York for the July test date.**

SAT ADMINISTRATION - DATES:2026

March 14, 2026

May 2, 2026

June 6, 2026

August 22, 2026

September 12, 2026

October 3, 2026

November 7, 2026

December 5, 2026

COMMONLY ASKED QUESTIONS:

1. **What are the school hours?**
   The school day will begin at 7:40 AM and end at 2:35 PM.
2. **How many periods are there?**
   The school day consists of eight periods.
3. **What is the lunch procedure?**
   JMHS has one lunch period 9-12
   JMMS has two lunch periods, 6th grade and 7 and 8th grade.
4. **Is there a dress code?**
   Yes, refer to the JM student handbook for a detailed description of the dress code.
5. **How often are report cards issued?**
   Report cards are issued after each 9-week period. At the end of the 1st and 2nd semesters, a mid-term exam grade or final exam grade and a semester grade or final class grade will also appear on the report card.
6. **What do I do if my son/daughter can't come to school?**
   Please call the attendance secretary, Mrs. Hallas (330-538-6263), before 10:00 AM. Parental contact is necessary.
7. **Can my son/daughter leave school for an appointment?**
   Acceptable reasons for leaving school are: (1) doctor's appointment, (2) court appearance, (3) illness, (4) emergency, (5) post-secondary appointment (see College Visits). Medical, legal, and College appointments must also be verified in writing before and after.
8. **Can we take our son/daughter out of school for a family vacation?**
   It is not encouraged, but arrangements can be made to complete work that will be missed if the parent notifies the school ahead of time. Students are responsible for all work missed. Vacation requests require pre-approval by the School Principal.
9. **What about make-up work?**
   Students are requested to bring a note to school after each absence explaining the reason for the absence or tardiness. Students who have absences verified by a doctor's excuse or similar legal document within 24 hours of returning from the absence are entitled to make up any work assigned during the absences. Each student who is absent must immediately, upon return to school, make arrangements with his/her teacher(s) to make up work missed. The minimum number of days to be given to make up work is to be equal to the number of days the students are absent plus one additional day. If a student knows in advance of his absence, the student may obtain his assignments in advance.
10. **What is the size of the student body?**
    JM has approximately 300 students in grades 9-12.
11. **If I am concerned about my son/daughter's schedule or grades, who should I contact?**
    If you have questions about your child's schedule, call the guidance counselor to discuss your concerns. If you would like to get more information about how your child is performing in class, you should call or email the teacher. JMHS also uses ProgressBook. ProgressBook is a web-based program that allows parents /guardians to view student progress. The only requirement to use the program is that you have a computer with Internet access.
    ProgressBook allows two types of accounts: parent and student. A Parent Account will display all students within the family with one login, while a Student Account will display only that one particular student upon logging on to ProgressBook. Information and instructions can be provided by the Main Office. This information and a direct link to the site can also be accessed through our website: http:www.**jacksonmilton.k12.oh.us** Please do not hesitate to contact the Main Office should you experience any difficulty with your account. Contact may be made by telephone at: (330) 538 -3232
12. **What kind of services does the guidance office provide?**
    The counselor is available to assist students with scheduling, college and career information, and personal concerns. The relationship the guidance counselor has with the students at JM consists of privileged communication unless a "duty to warn" situation arises. A duty to warn situation arises when a student is being harmed or is hurting someone else. As needed the guidance counselor is available to any student in the school to discuss his/her personal concerns. If a parent or student should need more information regarding privileged communication please talk to the school counselor.

JACKSON-MILTON EXTRA-CURRICULAR ACTIVITIES:

HIGH SCHOOL BAND: See COURSE DESCRIPTION, considered a co-curricular activity.

CHEERLEADING

There are two high school cheerleading squads: Varsity and Junior Varsity. Cheerleaders lead Blue Jay fans in cheers to promote school spirit during Football and Basketball seasons.

DRAMA CLUB **9-12**

This club is for any High School student interested in theater. The club presents one production a year and is open to any students in grades 9 through 12. Amount of time involved varies with involvement in play.

KEY CLUB **9-12**

The Key Club membership fee is $10.00, members should be willing to work as a team member & undertake community service. To join, contact a Key Club member or the supervising teacher. Only senior Key Club members are eligible to apply for the Kiwanis Scholarship valued at $1000.00.

NATIONAL HONOR SOCIETY **11th and 12th**

Anyone with a 3.5 GPA is considered for membership and will receive an application. The application must be submitted by the posted deadline. Final selection will be made by a panel of teachers. Some activities include: community service, an induction ceremony in the Spring and various fundraisers throughout the year.

MAHONING VALLEY MINIATURE BRIDGE BUILDING COMPETITION **12th grade Physics Students**
Students will construct their bridges on site within the specified time according to competition specifications. The bridges will be judged to meet design criteria and then load tested .The winning bridge will be chosen based on meeting the design criteria and the most efficient load carrying capacity to structure weight ratio. Other awards will also be presented for various aspects of civil engineering.

QUIZ BOWL TEAM **9-12**

Quiz Bowl League competition extends from January through March with other county schools. Mahoning County Meet takes place at the MCCTC in March. Team practice is once a week, matches are once a week for 8-9 weeks, plus county matches for 1-2 weeks.

SPEECH/DEBATE TEAM **9-12**

Get involved! Join the Speech & Debate team. Travel to schools and compete in Debate, Individual Speech competition. There will be a State tournament to compete in at the end of the season.

S.A.D.D. **9-12**

Members must sign the S.A.D.D. contract pledging to live a chemical-free lifestyle and pay the $ 5.00 membership fee. Activities include sponsoring various community events, multiple awareness activities, and programs at the elementary & high schools including, but not limited to, Red Ribbon & Prom Promise.

STUDENT COUNCIL **9-12 with G.P.A. of 2.5 or higher**

Officials are elected by an entire class, club, homeroom or honorary membership at the beginning of the school year. The main purpose is to provide projects & activities that contribute to the spirit & image of the school. We are a service organization. Homecoming is our #1 activity. The council absorbs ½ of all the dinner cost so the tickets remain relatively inexpensive for all students in grade 9-12. Council conducts a spring blood drive, give to charities, and sponsors seniors with scholarships each year and conducts numerous events.

YEARBOOK **9-12**

Members must complete various tasks; layout and design of yearbook, raise funds to help support the cost of the yearbook, assist with photography at school events, and organization of school picture day. Members must learn to use the computer/various programs in order to produce the yearbook. After-school time is necessary for pictures and meeting deadlines.

FRESHMEN CLASS **ALL 9th graders**

Get involved! Planning & completing Homecoming floats & halls, planning & carrying out fundraisers for homecoming costs, building a fund for 11th grade Prom & Social activities. Meetings are held as needed; there are usually 16-20 meetings for officers.

SOPHOMORE CLASS **ALL 10th graders**

Get involved! Raise money for prom and help organize and decorate a float for the homecoming game.

JUNIOR CLASS **ALL 11th graders**

Get involved! Main activity is to sponsor Junior-Senior Prom in May. Members must help raise about $3,000 to pay for prom. .

SENIOR CLASS **ALL 12th Graders**

Must be a graduating senior & willing to GET INVOLVED! Plan for Senior Breakfast, Senior Picnic, and the Graduation Day Ceremony, help design class graduation announcements, order cap & gown for all seniors, sponsor a senior T-Shirt Sale, and other events. Various fundraisers help pay for the Senior Breakfast and Senior Picnic.

INTERSCHOLASTIC ATHLETICS:

BASKETBALL	*VARSITY, JUNIOR VARSITY, FRESHMEN
BASEBALL	*VARSITY, JUNIOR VARSITY
CROSS COUNTRY	*VARSITY
FOOTBALL	*VARSITY, JUNIOR VARSITY, FRESHMEN
GOLF	*VARSITY
SOCCER	*VARSITY, JUNIOR VARSITY
SOFTBALL	*VARSITY, JUNIOR VARSITY
TRACK	*VARSITY, JUNIOR VARSITY
VOLLEYBALL	*VARSITY, JUNIOR VARSITY, FRESHMEN
WRESTLING	*VARSITY, JUNIOR VARSITY

***JM's number of athletes in each sport will dictate how many teams we will have in a given school year. For example: if we have enough participants we could have a junior varsity football team, however, the number of players will dictate the practicality of having that junior varsity team. Freshmen teams follow this same rule.**

***Athletic eligibility for athletes is determined from the preceding nine-week grading period. The Jackson-Milton Local Schools comply with state mandates and have adopted a minimum grade point average and course load for participation in athletics. Students must maintain a minimum 1.0 grade point average, passing 5 units of credit equivalency. Once a student attains the age of 20, the student will no longer be eligible for interscholastic athletic competition notwithstanding where that 20th birthday falls in relation to the sports season.**

COURSE DESCRIPTIONS:

ART:

Art I (020) .5 credit

Beginning art students are introduced to various media through art making experiences that focus on the elements and principles of design. Art history, criticism, and analysis are included in the curriculum. It is strongly recommended for those seeking a fine art credit for college entrance.

Art II (030) .5 credit

Prerequisite: Art I

The students will learn a more in-depth approach to skill development. Art II focuses on experimentation with style and analysis of art.

Drawing and Painting (065) .5 credit

Students will spend nine weeks drawing and 9 weeks painting. Drawing skills from direct observation of the figure, still-life, landscape, and architectural forms will be emphasized along with further understanding of design principles, color theory, critical thinking and problem solving. These concepts will be introduced and illustrated throughout the course through the exposure and analysis of movements associated in art history. A variety of drawing and painting techniques and media will be explored, including pencil, ink, charcoal, pastel, acrylic, collage, watercolor, oil paint and mixed media.

Sculpture and 3-Dimensional Art (071) .5 credit

This art class will focus on the design and art form of things that are three-dimensional. This class will be great for students who find painting and drawing stressful. Students will be introduced to a variety of projects that are 3D. The materials they will use will include clay, wire, wood, and paper mache. Students must have taken Art 2 before enrolling in this class.

AP Art (068) 1 credit

Prerequisite: Art I & II and grade 10-12

This course is offered for students who have a continuing interest in art. The serious artist can explore many facets of art in preparation for a career in art. A portfolio will be prepared.

Digital Media (074) 1 credit

The goal for this course is to focus on the following: photography, film, and other digital art mediums. The objective of this course is to expose students to creating daily content in the form of broadcasting using digital media tools such as camcorders to film daily announcements that will also be associated with learning the art of photography and digital editing software. Through this course, students will enhance their creativity and communication skills. Students will share daily and future events such as sports, graduation, upcoming events, college/career fairs, and much more. Students will also learn basic digital photography skills such as taking clear photos with an artistic approach as well as learning to use photo editing software.

ENGLISH:

English 9 (320) 1.0 credit

The freshmen students begin the year with the study of figurative language, using many examples, primarily from poetry and short stories. The rest of the year is spent reading different types of literature, analyzing its themes/characters, and writing expository essays on these short stories, plays, and novels. The students will also conduct independent research and write argumentative essays.

Advanced English 9 (321) 1.0 credit

Please see below for prerequisite information

This class will include what is stated in English 9 along with several additional novels and more in-depth discussion of abstract ideas in the literature as a device to better discipline and exercise the academic mind. There is also additional emphasis on writing as both an expository and creative exercise.

English 10 (330) 1.0 credit

The sophomore year is a continuation of the study of literature, but probes deeper into an analysis of characters and more mature themes. Students are expected to show more maturity in the writing of essays. A more in-depth study is made of the literary devices of figurative language, irony and symbolism.

Advanced English 10 (331) 1.0 credit

Please see below for prerequisite information

This class will include what is stated in English 10 along with more in-depth discussion of abstract ideas in the literature as a device to better discipline and exercise the academic mind. There is also additional emphasis on writing as both an expository and creative exercise.

English 11 (340) 1.0 credit

The junior year focuses on preparing students for college. A comparison of the styles and techniques of individual American authors is emphasized along with researching techniques. Oral presentations are required.

Advanced English 11 (341) 1.0 credit

Please see below for prerequisite information

The Advanced English 11 class is focused on preparing the student for the rigors of college English coursework. This course will build critical thinking skills and probe the analytical elements of literature. As well, this class will continue to improve formal written communication skills.

Computer Literacy (723) .5 credit

Computer Literacy is a course for high school students to explore the keyboard to improve typing skills. Within this course, students will also have the opportunity to learn how to use various programs. These programs include (but are not limited to) Google Docs to create documents and format essays in MLA and APA Format, Google Slides to create presentations, and Google Sheets to create tables for data analysis. These skills will not only help students within their academic classes, but better prepare students with basic computer skills for further education and the workforce after high school.

Yearbook (722) **1.0 credit**

This course incorporates learning skills to create the high school yearbook, The Echo. Students will learn/improve photography skills, page layout and design, business and advertising, and movie design. These skills will be applied toward securing advertisements, taking pictures at school events, designing pages in the yearbook, and creating the Senior Slideshow.

Newspaper /Journalism (742) **1.0 credit**

Prerequisite: C or higher in previous Language Arts course

This is a Language Arts based course involving cross-curriculum standards. Students will develop basic journalism skills in the areas of news writing, interviewing, layout and design, photography, communications and advertising. Students will become familiar with elements of press law, journalistic functions and copy editing. The skills learned in this course will be applied to create a student centered publication, *The Jackson-Milton Journal.* The students will update an online news website regularly throughout the year.

Public Speaking (746) **.5 credit**

Public Speaking is a course for high school students to work on speaking and presenting in front of groups of people. Students will explore and practice various techniques to improve communication skills through individual and group presentations/speeches. Various types of public speaking presentations include improvisation, speeches, debates, and interviews. Written communication will also be discussed as students explore career communications. The positive learning environment in this course will provide students the opportunity to build up the confidence to speak in front of their peers.

English 12 (350) **1.0 credit**

English 12 is a continuation of studying various genres of literature through a deeper analysis of character traits, concepts, and themes. The focus of the course is in reading selected poetry, prose and drama with an emphasis on making literary and real world connections to improve student understanding of figurative language and abstract thinking. Students will be asked to respond to the literature in both creative and analytical themes. Class discussion is an important part of the work of the course. This course continues to improve formal and general written communication skills and research writing skills. The course also contains a Career passport which includes many job oriented writings.

Criteria for Admittance into Advanced English Courses:

1. **Students must have a final grade of an A in a general English course for the previous year.**
   Example A:
   A student desires to enter Advanced English 9 during the 2021-2022 school year. In eighth grade, the 2020-2021 school year, he or she received an A average. He or she may apply with the writing sample.
   Example B:
   A student desires to enter Advanced English 11 during the 2021-2022 school year. Although he or she received an A average in General English 9 during the 2019-2020 school year, he or she received a B for General English 10 during the 2020-2021 school year and may not apply. The A grade average must be for the previous year before the class in which admittance is desired.
2. **A student wishing to enter an advanced English course, who has met the grade criteria, must also submit a sample essay using the grade appropriate prompt supplied by the English department for consideration. The high school English faculty will score these essays using the basic traits of purpose, ideas, organization, style, and mechanics.**

Prompt Types:

Grade 9 Essay – Argumentative Essay-Research necessary
Grade 10 Essay – Comparison Essay
Grade 11 Essay – Argumentative Essay – No research necessary
Grade 12 Essay – Argumentative Essay – Research necessary

Criteria for Maintaining Advanced English Courses:

A student must maintain a B average at the end of the previous year to stay in advanced English courses.

FOREIGN LANGUAGES:

Spanish I (620) 1.0 credit

The same textbook series is used throughout all four levels of Spanish. In Spanish I the student will learn about various aspects of Latin American and Spanish society as well as basic Spanish sentence structure and vocabulary. Most of the course uses present tense verbs. The student will be able to communicate by answering questions and engaging in basic conversations. The student will practice writing, reading, speaking and listening by practicing exercises from the textbook, computer and Internet.

Spanish II (630) 1.0 credit

Prerequisite: Spanish I with at least a "C average"

Spanish II is an extension of the first-year course. The student will continue to learn vocabulary and more advanced sentence structure in Spanish. More verb tenses are introduced. The student will continue to practice speaking, writing, reading and listening skills within a cultural framework.

Spanish III (640) 1.0 credit

Prerequisite: Spanish II with at least a "C" average

The student will increase his/her vocabulary knowledge and will learn the remainder of the verb tenses. The student will begin to read more difficult material which uses a variety of verb tenses and more complicated sentence structure. The student will continue to practice speaking, writing, reading, and listening skills within a cultural framework.

Spanish IV (650) 1.0 credit

Prerequisite: Spanish III with at least a "C" average and Instructor Permit.

The focus of the course is an introduction to literature and understanding the subjunctive mood. The student will continue to study vocabulary and grammar, will translate stories and articles, and will practice speaking, writing, and listening skills. At this level, students will also explore various facets of Spanish speaking countries.

HEALTH & PHYSICAL EDUCATION:

Health Education (1230) .5 credit

Instruction will include how personal choices/decisions in physical, mental or emotional, and social areas have an interrelated effect on overall wellness. Topics include: personality, self-esteem, stress management, mental illness (such as; depression, eating disorders, etc.), nutrition, suicide, communication skills, skills for healthy relationships, violence prevention (including bullying and dating violence) and sexually transmitted infection education (a written request from the student's parent/guardian will excuse a student from taking instruction in sexually transmitted disease education). Emphasis will be on self-reflection and the promotion of healthy lifestyles.

Physical Education 9 (1232) .25 credit

Instruction will include the movement patterns and skills of sports, games, and lifetime fitness activities to develop the student's cardio-respiratory endurance, agility, flexibility, muscular strength & endurance, coordination and general physical fitness.

Physical Education 10 (1238) .25 credit

Prerequisite: Passing grade in PE 9

Instruction will be a continuation of the curriculum to include the movement patterns and skills of sports, games, and lifetime fitness activities to develop the student's cardio-respiratory endurance, agility, flexibility, muscular strength & endurance, coordination and general physical fitness.

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World of Sports (1234) .5 credit

Prerequisite: Passing grades in PE 9

Physical education can serve as a vehicle for helping students to develop the knowledge, attitudes, motor skills, behavioral skills, and confidence needed to adopt and maintain physically active lifestyles. The outcomes of a quality physical education program include the development of students' physical competence, health-related fitness, self-esteem, and overall enjoyment of physical activity. Instruction will be given on activities that can be used throughout a person's lifetime. *Physical education electives do not count towards graduation requirements

Competitive Sports (1236) .5 credit

Prerequisite: Passing grade in PE 9

This course will strive to elevate the basic skills involved in playing different types of competitive sports. Competition involves cooperation, concentration, coordination, and creativity. It will stress fair and spirited play while striving for quality in cerebral and practical endeavors.
*Physical education electives do not count towards graduation requirements.

Strength & Endurance 1 (1250) .5 credit

Prerequisite: Passing grades in Health, PE 9 & PE 10 and Instructor Permit

An introductory course designed to help each student: improve muscular strength; gain knowledge and understanding of weight training theory and practice;develop a personalized weight training program. Students will benefit from comprehensive weight training and cardio-respiratory endurance activities.
*Physical education electives do not count towards graduation requirements.

Strength & Endurance 2 (1251) .5 credit

Prerequisite: Passing grade in Strength & Endurance 1

This course is a continuation of Strength & Endurance 1. This course is to provide more opportunity for students to build on and implement their work out developed during Strength & Endurance 1.
*Physical education electives do not count towards graduation requirements.

Racquets Class (1253) .5 credit

Prerequisite: Passing grades in PE 9

This course will consist of racquet and paddle sports including but not limited to Badminton, Pickleball, Eclipse ball, Speedminton and table tennis. A heavy emphasis will be placed on skill development, strategy and fair play of each of these activities through instruction and tournament play. Fitness and conditioning activities associated with these activities will also be addressed.
*Physical education electives do not count towards graduation requirements.

Fitness Walking Class **.5 credit**

The class is designed to introduce and promote walking as a form of low impact aerobic exercise to improve fitness and overall health.Students will have access to the school track and also nature walks on school grounds behind the building. Students will count their steps each day using a tracking device such as a Pedometer.

MATH:

Algebra IA/Math Lab (219) **1.5 credit**

Prerequisite: Math 8 with teacher referral

This course is designed to provide a transition from concrete arithmetic to abstract algebra and variable concepts. Topics include: the real number system, linear relationships, relationships between graphical and symbolic forms, solving linear equations and inequalities, and systems of equations and inequalities. Students will need a scientific calculator
(a TI 30 or equivalent) for this course.

Algebra IB (222) **1.0 credit**

Prerequisite: Algebra IA

This course is a continuation of the concepts begun in Algebra IA. Topics include: real number system, functions, solving quadratic equations, systems of equations and inequalities, and polynomials. Students will need a scientific calculator (a TI 30 or equivalent) for this course.

Algebra I (220) **1.0 credit**

This math course is designed to provide a transition from concrete arithmetic to abstract algebra and variable concepts. Topics include: real number system, seeing structure in expressions, creating and reasoning with equations and inequalities, functions, linear quadratic and exponential models. Students will need a scientific calculator
(a TI 30 or equivalent) for this course.

Advanced Algebra I (221) **1.0 credit**

Prerequisite: Math 8 with at least 95%, or Honors Math 8 with at least 93% and score a 4 or 5 on the 8th grade state test.

This math course is designed to provide a transition from concrete arithmetic to abstract algebra and variable concepts. Topics include: Topics include: real number system, seeing structure in expressions, creating and reasoning with equations and inequalities, functions, linear quadratic and exponential models. Students will need a scientific calculator
(a TI 30 or equivalent) for this course.

Geometry (232) 1.0 credit

Prerequisite: Algebra I or Algebra IB

This math class connects the visual and physical world with the information algebra students know. Topics of study include: points, lines, planes, congruent and similar figures, parallel and perpendicular lines, area and volume of polygons, constructions, transformations, basic trigonometry, basic statistics, and coordinate geometry with proofs integrated throughout the course. A variety of problem-solving questions applying the geometry will be studied. The following materials are required for this course: a scientific calculator, compass, protractor and 12 inch ruler that includes metric units

Advanced Geometry (233) 1.0 credit

Prerequisite: Algebra I with at least 90%, or Advanced Algebra I with at least 85%

This math class connects the visual and physical world with the information algebra students know. Topics of study include: points, lines, planes, congruent and similar figures, parallel and perpendicular lines, area and volume of polygons, constructions, transformations, basic trigonometry, basic statistics, conic sections, and coordinate geometry with proofs integrated throughout the course. A variety of problem-solving questions applying the geometry will be studied. The following materials are required for this course: a scientific calculator, compass, protractor and 12 inch ruler that includes metric units

Algebra II (230) 1.0 credit

Prerequisite: Geometry

This math class explores the topics from Algebra I in greater detail. The advanced algebraic topics covered are functions including quadratic, logarithmic, and polynomial, and powers and roots. Problems model real-world situations and problem-solving techniques are presented. The use of a graphing calculator is stressed.

Advanced Algebra II and Trigonometry (235) 1.5 credits

Prerequisite: Geometry with at least 90% or Advanced Geometry with at least 85%

This math class explores the topics from Algebra I in greater detail, along with trigonometry topics, and is designed to prepare students to take a calculus course in the future. The advanced algebraic topics covered include an in-depth analysis of functions, along with a focus on rational operations and other pre-requisites for Calculus. Trigonometric topics such as the unit circle, Law of Sines and Cosines, and trigonometric equations are studied as well. Problems model real-world situations and problem-solving techniques are presented. The use of a graphing calculator is stressed. This class is a block period (two consecutive periods) each day.

Advanced Quantitative Reasoning (237) 1.0 credit

Prerequisite: Senior status

This course is designed to promote reasoning, problem-solving and modeling through thematic units focused on mathematical practices while reinforcing and extending content in number and quantity, algebra, functions, statistics, probability and geometry. The rigor of this course lies in the explanation and communication of mathematical concepts. It is a yearlong course taught using student-centered pedagogy.

Calculus (250) 1.0 credit

Prerequisite: Advanced Algebra II with at least 85%

This course will explore calculus topics including limits, derivatives, and integrals of polynomial, trigonometric, and transcendental functions. Applications of these topics as well as advanced use of a graphing calculator will help prepare students for entrance into college level math.

CCP Math (Belmont College at JM)

Prerequisite: Acceptance into Belmont College AND eligible to take college level math (requires a 22 or higher ACT math score or completion of high school algebra 2 with a final grade of A or B)

This course is taught by a professor at Jackson-Milton High School for college credit.

Successfully finishing this course will count as a Math credits for graduation requirement and college credit. Patrick Carbon is the Belmont College advisor. He can be reached at: PCarbon@belmontcollege.edu

(740) 314-0157

MUSIC:

Music Independent Study (866) .5 credit

This elective is student driven. Based on student interests, we will cover topics including (but not limited to) Music Theory, Composition. History of Rock & Roll, and Choral Singing. Students have the opportunity to write compositions and have them performed by student ensembles. Students may work on solo instruments or voice to prepare for auditions. As part of our History unit, students will have the opportunity to travel to the Rock and Roll Hall of Fame. Students do not need to be a part of the band program to be enrolled in this course.

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Survey of Music Theater (865) 1.0 credit

Students will explore a variety of musicals and Broadway shows, from classics such as The Sound of Music to modern hits like Hamilton.. They will learn about all aspects of musical theater, from costuming to staging to lyrical writing. Students will watch multiple shows and learn about the creative forces behind them. We will address the standards of a modern Broadway musical, learning about the kind of songs that are always present, and students will learn to identify those songs across dozens of musicals. Students will have the opportunity to have field trips to see live shows.

Intro to Music Technology; 1.0 credit

Students will have the opportunity to work with various aspects of music technology, including composition, recording, and production. This will include writing electronic drum grooves, learning aspects of recording with different microphone setups, and creating and producing podcasts. Students will learn how to use programs such as GarageBand and SoundTrap. Students do not need any previous knowledge of music to take this class.

SCIENCE:

Physical Science (420) 1.0 credit

Prerequisite: Freshman status

This course is designed to prepare students for the New Generation of State Assessments. This class introduces the basic concepts of chemistry and physics. Topics include scientific inquiry, formation of elements, chemical bonding and writing balanced equations, energy and physical properties. Also included are velocity, acceleration, forces, energy, and forces within earth systems that cause a variety of phenomenon (i.e. plate tectonics, sea-floor spreading, ocean currents, volcanoes, etc.). This course is required of all students and designed to align with grade nine academic standards for science. It is a prerequisite for chemistry and physics.

Biological Science (430) 1.0 credit

Prerequisite: Sophomore Status

This course is designed to prepare students for the New Generation of State Assessments. Students will learn subject matter that is at the introductory levels of Cell Biology and Genetics and Ecology and Biodiversity. Topics include scientific inquiry, science and technology, cell structure and function, the molecular basis of heredity, interdependence of organisms, matter and energy, behavior of organisms, biodiversity and biological evolution. This course is required of all students and designed to align with grade ten academic standards for science.

Marine Science (440) .5 credit

Marine Science is designed to be an elective course for students with a career or special interest and high motivation for an in-depth study of marine life. Marine Biology focuses on the identification, classification and interaction of marine organisms. Topics students study include an introduction to oceans, properties of the ocean water, ocean currents, tides, hurricanes, plate tectonic and seafloor formation,bony fishes, and marine ecology.

Chemistry 1 (445) 1.0 credit

Prerequisite: C" or better in both (420) and (430); Algebra II or concurrent

This course provides students with an in-depth look at the interactions of matter on the atomic level in the world around us. Topics include, but are not limited to, the study of chemical reactions, stoichiometry, nomenclature, patterns in crystal and molecular structure, physical and chemical properties of substances, molecular forces, acid-base reactions, and gas laws. The purpose of this class is to prepare students for college level science course work and laboratory experiences. Satisfies the requirements for a third credit of science. Recommended for students interested in going to a four-year university, especially in the areas of law, medicine, engineering or one of the sciences. Lab intensive.

Forensic Science 1.0 credit

Prerequisites:Successful completion of Biology and Physical Science with at least a "C" average

This is an introductory course in which students will have the opportunity to explore how scientific principles are used in analyzing physical evidence found at crime scenes and to be introduced to the wide array of career choices in forensics. The fundamental objective is to teach the basic processes and principles of scientific thinking so as to apply them to solving problems that are related not only to science but to all disciplines. The focus will be to introduce students to some of the specialized fields of forensic science, the principles of science and technology upon which they are based, and the application of these principles to various analyses of crime scene evidence. Lab and project intensive.

Human Anatomy and Physiology (457) 1.0 credit

Prerequisites: Final grade of "A" in Biology I.

The course is for those interested in science-related fields. Anatomy and physiology is a discussion and laboratory based study of the human body. The study will range from molecules, cells, body systems, and processes. Dissection of a fetal pig and other appropriate organs will compliment course work. This course is designed for college preparation, especially for biology and health career majors

Physics (456) 1.0 credit

Prerequisite: "C" or better in Introduction to Physics; Advanced Algebra II or Concurrent

This course provides students with an in-depth look at the interactions of matter on the macro level in the world around us. Topics include, but are not limited to, the study of kinematics, forces, energy, thermodynamics, wave phenomena, electricity, and magnetism. Topics in modern physics such as particle physics, cosmology, relativity, and quantum mechanics will also be discussed. The purpose of this class is to further prepare students for college level science course work and laboratory experiences. Strongly recommended for students interested in the fields of medicine, engineering, architecture, or one of the sciences. A grade of "C" or better is often required in high school physics to take introductory physics classes at the college level. Lab and project intensive.

Drones 1 (sUAS Safety Level 1) .5 credit

This course (sUAS Safety Level 1) explores the key technology used in Remotely Pilot Aircraft Systems (RPAS) to give the learner a deeper understanding of how RPAS can navigate and perform a wide range of tasks. This course focuses on the four major components of RPAS including the aircraft, the payload, the control station, and the data link that relays information between each of these components. Students who successfully pass the USI sUAS Safety Level 1 examination with a 70 percent score will receive a certificate and digital badge. (Can earn 6 Industrial State Credits)

Drones 2 (Part 107 prep) .5 credit

Prerequisite: passing Drones 1- with a "C" or better and ***Need*** *to pass the Level 1 Safety Certificate Exam or have permission from the instructor.*

This course sets a sturdy foundation of required aeronautical knowledge for remote pilots of UAS less than 10 pounds and introduces learners to USI's industry-leading safety principles. The curriculum addresses all pertinent aeronautical knowledge factors outlined by the FAA for the Unmanned Aircraft General (UAG) examination for the Remote Pilot Certification and augments those with safety concepts and practices to develop well-informed and responsible remote pilots. Students who successfully pass the FAA for the Unmanned Aircraft General (UAG) examination with a 70 percent score will obtain a UAG license (if 16 years and older) to fly drones for commercial applications. (Can earn 6 Industrial State Credits)

Drone Maintenance .5 credit

Prerequisite: passing Drones 1 (Safety Level I) and Drones 2 (Part 107 prep) with a "C" or better and Need to pass the Level 1 Safety Certificate.
This course is a self-paced, online, and instructor-supported program designed to provide foundational knowledge in small unmanned aircraft system (sUAS) maintenance, focusing on best practices, regulatory compliance, and safety, often serving as a pathway for career advancement as a Drone Maintenance Technician. The curriculum covers maintenance principles, documentation, diagnostics, and preventative maintenance through four main modules and hands-on exercises. With the successful passing of the sUAS Maintenance Certification exam can earn 6 Industrial State Credits.

Drones 3: UAS Visual Line of Sight Operations (VSO) Ground .5 credit

The VSO Ground course provides a comprehensive overview of Visual Line of Sight (VLOS) operations in small remotely piloted aircraft systems (RPAS). Learners will gain a thorough understanding of the essential concepts, skills, and best practices necessary for conducting safe and effective VLOS operations. The course covers various topics, including regulations, planning, site surveying, equipment transportation, preflight decision-making, flight operations, and post-flight procedures. Through theoretical instruction, practical exercises, and real-world case studies, participants will develop the knowledge and skills required to confidently and responsibly operate RPAS within a visual line of sight. Successfully passed the proctored Unmanned Aircraft System Safety Exam with a 70% (Can earn 6 Industrial State Credits)

Prerequisite: passing Drones 2 with a "C" or better and passing the part 107 exam.

Drones 4: sUAS Visual Line of Sight Operations (VSO) Flight (UCI) .5 credit

USI's Visual Line-of-Sight Operations (VSO) Flight certification program includes all the hands-on training necessary to ensure adequate remote pilot-in-command flight training for every student. Our goal is to guarantee total immersion into the systems and techniques of unmanned flight to ensure a complete understanding and ability to apply concepts of unmanned aviation safety to real-time unmanned operations. Successfully passed the proctored Unmanned Aircraft System Safety Exam with a 70%. Successfully pass the USI Certified Instructor™ evaluation of flight maneuvers (Can earn 6 Industrial State Credits)

Prerequisite: passing Drones 3 (student will need to have USI's Visual Line-of-Sight Operations (VSO) Ground certification) with a "C" or better and pass the part 107 exam.

SOCIAL STUDIES:

American/World History I (520) 1.0 credit

Students will examine the social, political, economic and religious areas that have impacted the World and American History. The topics examined will include historical documents and 1877 to 1920s. This class is a prerequisite for American/World History II.

American / World History II (530) 1.0 credit

Prerequisite: American/World History I

This course will examine the social, political, economic and religious areas that have impacted World and American History. The course will cover all areas of World and American History from the 1920s to present day.

Government (539) 1.0 credit

Prerequisite: American/World I & II

American Government includes the study of the Constitution, The Bill of Rights and Amendments 11-27. The three branches of government are covered in depth as well as the study of state and local government, federal and state spending and citizen rights and responsibilities

Psychology (541) .5 credit

Prerequisite: American World History I and American World History II

Psychology is the study of human behavior. This course teaches students an understanding of the relationships between one's physical, mental and emotional well-being and the basic principles governing the growth and maintenance of behavior, emotion and cognition.

American Pop Culture (538) .5 credit

Prerequisite: American World History I and American World History II

Students will study the aspects of American culture that have had a tremendous influence on who we are as a nation and which are most often overlooked in the traditional history course. Students will trace the development and trends of selected topics analyzing the impact each has had on "the American Way." Students will use varying materials including classroom available texts, the internet, newspapers and magazines to conduct research and complete activities that will enhance critical thinking, writing, and presentation skills.

Virtual Geography (540) .5 credit

This course builds on students' understanding of geography and spatial thinking. Contemporary issues are explored through the lens of geography. In addition to understanding where physical and cultural features are located and why those features are located as they are, students examine the implications of these spatial arrangements. The course will rely on a digital aspect of exploring the world through Google Earth. In minutes we will be able to be in Yosemite National park, to the Taj Mahal, and the Great Wall of China. Through Google Earth we can also witness how our world has changed throughout the last 30 years and the impact humans are having upon the surface and below the sea.

WORK AND FAMILY LIFE:

Food and Fitness (130) .5 credit

Students will use the USDA MyPlate principles of nutrition to ensure a healthy body throughout the lifecycle. An emphasis will be placed on planning and preparing meals with an understanding of nutrients and their benefits, portion control and dietary needs. Additional information will include special diets, steroid and supplemental use, body weight, and management and the implementation of physical activity to maintain a healthy lifestyle. "Fitness Fridays" will be included in this course and will support physical activity outside of the classroom one day a week.

Class time includes demos, labs, projects, (individual and group) notes/lectures, written assessments, physical activity, and videos. There will be a $20 fee for cooking supplies.

Cooking Basics (132) .5 credit

Students will learn how to use the USDA's MyPlate program to gain the knowledge to prepare quick, nutritious foods while examining the proper food selection criteria to promote healthy eating habits. Throughout this course, basic food safety and sanitation techniques will be emphasized along with the selection and proper use of kitchen tools and equipment. Students will learn proper measuring techniques, understand and compare food labels, and research food borne illnesses. Additional topics that will be covered; seasonal foods, herbs and spices, gingerbread houses, meal planning, table etiquette, and many more! Labs are incorporated weekly allowing students to apply what they have learned.

Class time includes demos, labs, projects (individual and group), simple mathematics, taking notes/lectures, written assignments, videos, and group activities. There will be a $20 fee for cooking and classroom lab supplies.

Foods for Life (141) .5 credit

Students will review safety and sanitation procedures along with the selection and proper use of kitchen tools and equipment, learn basic mise en place, knife handling skills, and explore careers in the culinary industry. Additional topics include; meal planning, plating techniques, food allergies and intolerances, recipe conversions, food sustainability, growing fresh herbs & vegetables, gingerbread houses, and much more! There will be a famous chef research project and presentation to inspire these Blue Jay "chefs in training." Labs are incorporated usually weekly allowing students to apply what they have learned.

Class time includes demos, labs, projects (individual and group), taking notes/lectures, written assessments, simple mathematics, speakers, and videos. There will be a $20 fee for cooking and classroom lab supplies.

American Regional Foods (142) **.5 credit**

Students will explore the connections between what we eat and cultures around us. As we move around the United States, this course will cover the history and how it relates to each region's dietary customs, ingredients native to each area, cuisines, and cooking methods. We will investigate cultural, spiritual, and social influences on food choices and gain an awareness and understanding of diverse populations within our society. We may also analyze world hunger and conditions that affect food availability and the quality of food.

Class time includes demos, labs, projects (individual and group), notes/lectures, written assessments, and videos.
There will be a $20 fee for cooking and classroom lab supplies.

Global Foods (143) **.5 credit**

Students will explore the connections between what we eat and cultures around us. As we move around the globe, this course will cover the history and how it relates to each region's dietary customs, ingredients native to each area, cuisines, and cooking methods. We will investigate cultural, spiritual, and social influences on food choices and gain an awareness and understanding of diverse populations within our society. We may also analyze world hunger and conditions that affect food availability and the quality of food.

Class time includes demos, labs, projects (individual and group), notes/lectures, written assessments, and videos. There will be a $20 fee for cooking and classroom lab supplies.

Baking and Pastry Arts (146) **.5 credit**

Students will apply basic culinary practices and understand how flavor, texture and appearance are affected during food preparation. Baking and Pastry Arts prepares you for successful careers as baking and pastry professionals through building a foundation of principles and skills, and then using specific applications and recipes. Students will be able to prepare a wide array of baked goods, pastries, and confections. Students will explore gluten-free baking recipe planning and preparation, altering and preparing recipes to address other allergies/dietary restrictions.

Class time includes demos, labs, projects, (individual and group), taking notes/lectures, written assessments, simple mathematics, videos, speakers, and group activities. There will be a $20 fee for cooking and classroom lab supplies.

Skills For Success (130) **.5 credit**

This course is designed to strengthen the connections between the student and life following graduation. Students will analyze interests & skills to prepare for a career then explore college and career options using several resources to explore possible career choices, including but not limited to careeronestop.org/ In this class they will practice filling out job applications, work permits and W2's, write resumes, interview tips, and other employability skills. Create a budget to manage personal finances and learn about pay stubs, checking vs saving accounts, budgeting, and identity theft. Finding and maintaining a vehicle and home. Establish basic food preparation, planning and healthy eating habits. Specific emphasis on dorm room cooking will also be included. Basic clothing repair and care will also be covered as well as simple vehicle maintenance. In addition to college and career exploration and skills for success, the students will complete a 12 point industry recognized credential utilizing NIMS and will also have an opportunity to earn the Ohio Means Jobs Readiness Seal.

Class time includes demos, labs, projects (individual & group), taking notes/lectures, written assessments, simple mathematics, videos, speakers, and group activities. There will be a $15 fee for cooking and classroom lab supplies.

Greenhouse to Garden (148) .5 credit

Students will learn the operational practices needed for the successful growth of greenhouse plants. They will learn essential greenhouse practices including water and fertilizer distribution, lighting, ventilation and temperature control. Students will learn pest and disease identification and control. Students will demonstrate knowledge of propagation methods, plant health, nutrition, and growth stimulation. This course will also allow students to cook using fresh herbs and vegetables, in addition to learning the health benefits of using fresh herbs

Class time includes demos, labs, projects (individual & group), taking notes/lectures, written assessments, simple mathematics, videos, speakers, and group activities. There will be a $15 fee for cooking and classroom lab supplies.

STEM (SCIENCE, TECHNOLOGY, ENGINEERING & MATH):

Mod Tech 1 (Industry 4.0) (762) .5 credit

This course is designed to introduce the basic tools and processes of mechatronics technology used in Industry 4.0. This program combines various learning methods to provide a robust experience in both theoretical knowledge and hands-on Industry 4.0 skills. Lessons include: machine safety, dimensional measurement, mechanical power, basic electrical circuits, electrical control diagrams, basic robot programming, etc. Students can also earn SACA certification ,SACA's Smart Automation certifications use a modular structure to enable them to fit a wide range of individual needs, industries, and educational environments. SACA offers certifications in three categories: Associate, Specialist, & Professional. Each certification is stackable, allowing individuals to start with one certification and add other certifications to customize their documented skills. Certifications are occupationally-focused, so they prepare individuals for specific occupations in the world of Industry 4.0.

Mod Tech 2 (Industry 4.0) (763) **.5 credit**

This course is designed to control systems of mechatronics technology used in Industry 4.0. I4F uses virtual simulators that replicate hands-on equipment and tasks in real detail. Amatrol's systems are loaded with real-world, industrial components for the closest possible experience to working on-the-job. Lessons include: manufacturing metrics, power efficiency, fluid force and frictions, basic material handling, PLC project development, PLC motor control, CNC machining, PLC event sequencing, etc. Students can also earn SACA certification, SACA's Smart Automation certifications use a modular structure to enable them to fit a wide range of individual needs, industries, and educational environments. SACA offers certifications in three categories: Associate, Specialist, & Professional. Each certification is stackable, allowing individuals to start with one certification and add other certifications to customize their documented skills. Certifications are occupationally-focused, so they prepare individuals for specific occupations in the world of Industry 4.0.

Entrepreneurship and Small Business (904) **.5 credit**

This course covers essential aspects of entrepreneurship, including management, finances, and marketing. Students gain practical insights and experience by assuming the role of an entrepreneur. Entrepreneurship and Small Business prepares students for the Entrepreneurship and Small Business (ESB) certification exam from Certiport®. Students will put into practice the course lessons by running the graphics design company Fishbowl Graphics, to make banners, stickers, and custom HTV.

Intro to Trades (603) **.5 credit**

Students will learn how to safely and properly operate hand and stationary power woodworking tools in the lab. Students will learn how to effectively use measuring tools to plan and create precise projects. Students will learn how to use and create woodworking joints for structural integrity and their aesthetic value. Students will build several intermediate level projects to explore various woodworking techniques and practices

Junior TRADES 1 (600) **1.0 credit**

Building Trades 1 is part 1 of a 2-year Pre-Apprenticeship program which will prepare students who may be interested in pursuing a career in the field of construction (carpentry, plumbing, masonry, etc.). This course is open to students in grades 11 & 12. Students will work toward completing an Industry Recognized Credential (IRC) as part of this program, which will provide a major advantage when applying for construction related employment after high school.Areas of study include basic safety, measurement and design, fasteners & adhesives, basic carpentry. Introduction to framing, roofing, cabinetry, electrical, plumbing, and finishing.

Senior TRADES 2 (601) **1.0 credit**

Building Trades 2 is part 2 of a 2-year Pre-Apprenticeship program which will prepare students who may be interested in pursuing a career in the field of construction (carpentry, plumbing, masonry, etc.). This course is open to students in grades 11 & 12. Students will work toward completing an Industry Recognized Credential (IRC) as part of this program, which will provide a major advantage when applying for construction related employment after high school.Areas of study include basic safety, measurement and design, fasteners & adhesives and basic carpentry. Students will work on projects that continue from skilled trades 1 but utilize skills with a higher degree of difficulty.

Careers Junior and Senior level .5 credit

Students interested in future teaching, social work or child related careers. Junior and seniors will be given an opportunity to work with our Middle and Elementary level students. This course is designed to strengthen the connections between the student and life following graduation. Students will analyze interests & skills to prepare for a career then explore college and career options using several resources to explore possible career choices, including but not limited to careeronestop.org/ In addition to college and career exploration and skills for success, the students will complete a 12 point industry recognized credential utilizing NIMS and will also have an opportunity to earn the Ohio Means Jobs Readiness Seal. Students will work in small groups and will report about what they've learned and how it correlates to the teaching standards and their chosen future profession.

Financial Literacy .5 credit

A semester course that aligns with the Ohio Financial Literacy and Common Core Standards. Students will learn personal financial skills which they will be able to apply to the real world. Interpreting paychecks, analyzing finances, creating budgets and planning for the future are just a few of the skills and concepts that will be discussed and analyzed in greater detail. This course will help develop a greater understanding of financial awareness and prepare students with the knowledge they will need to make informed financial decisions in the future.

THIS COURSE WILL BE MANDATORY FOR THE GRADUATING CLASSES OF 2026 & BEYOND.

Mod Tech 1 (Industry 4.0)/Intro to Welding (Virtual) (762) .5 credit

This course is designed to introduce the basic tools and processes of mechatronics technology used in Industry 4.0. This program combines various learning methods to provide a robust experience in both theoretical knowledge and hands-on Industry 4.0 skills. Lessons include: machine safety, dimensional measurement, mechanical power, basic electrical circuits, electrical control diagrams, basic robot programming, etc. Students can also earn SACA certification, SACA'S Smart Automation certifications use a modular structure to enable them to fit a wide range of individual needs, industries, and educational environments. Certifications are occupationally-focused, so they prepare individuals for specific occupations in the world of Industry 4.0.

The intro to Welding program will teach students the fundamentals of welding, the most common way of permanently joining metal parts, and the processes used to fabricate metal. Students will receive Virtual training in MIG and Stick welding through the Virtual guide WELD program powered by Realityworks. Individuals will explore additional topics such as blueprint reading, welding symbols, and a variety of tools associated with fabricating metals.

Outside Organization Opportunities:

Youngstown State University Workforce Education and Innovation:
About-Our mission is to prepare the current and future workforce with industry 4.0 skills through alternative learning pathways focused on advanced manufacturing and information technology (IT).
Example:
Workforce Education and Innovation is now part of the College of STEM.

IT Pre-Apprenticeship:
Pre-Apprenticeships provide basic technical and job-readiness skills, and help prepares students for a designated
*Occupation or career in a specific industry sector. Relates knowledge and skills to real-world work
*Students gain experience through a combination of on-the-job training and related technical instruction
*Students can choose one of the following pathways: 5G and Broadband
Information Technology
Advanced Manufacturing

*For more information about these opportunities please visit https://ysu.edu/workforce

Students are encouraged to regularly check their school email accounts for valuable educational and career opportunities. Colleges and organizations frequently update their offerings, providing new programs that may benefit them. Some past opportunities available to students include:

- **Kent State Youth Police Academy**
- **Summer Bridges Math Opportunity**
- **Kent Semiconductors Training**
- **YSU Introduction to Additive Manufacturing – Fused Deposition Modeling (FDM) class**
- **FBI Cleveland Future Agents in Training**
- **Med Camp**
- **Pharmacy Camp**

These are some of the past opportunities. These opportunities are communicated via email, and it is essential for students to follow up with the respective organizations as directed in the correspondence.