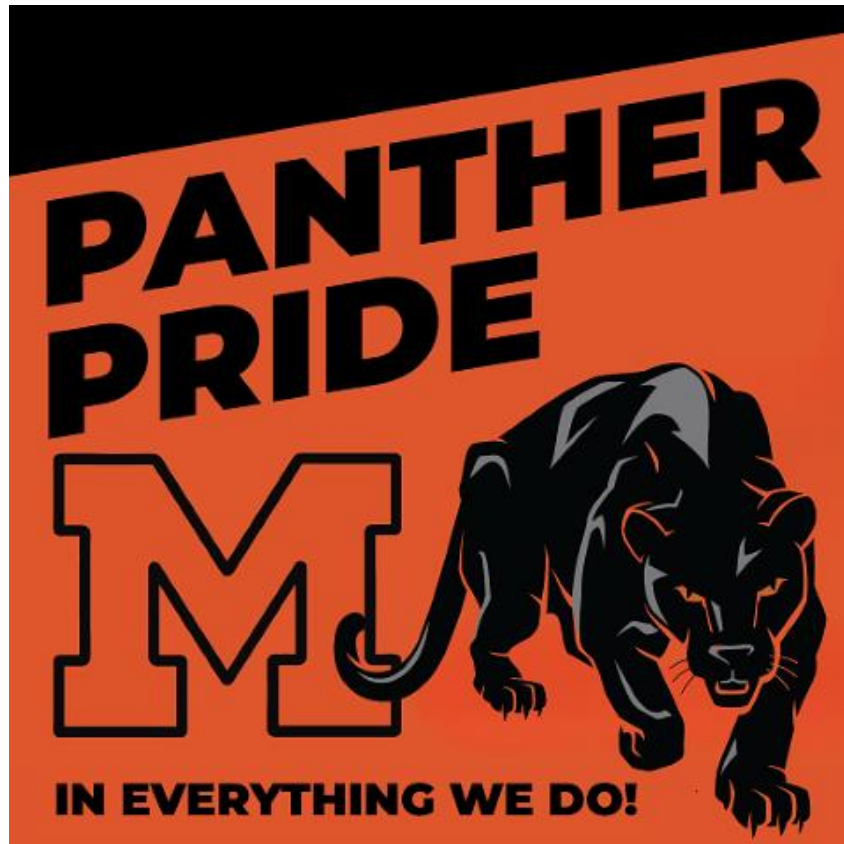


Milton Area Senior High School



COURSE DESCRIPTIONS For Grades 9, 10, 11, 12

2025-2026

Nondiscrimination Statement: The Milton Area School District does not discriminate on the basis of race, color, national origin, sex, sexual orientation, disability or age in its programs or activities. Career and Technical Education offerings are available in each of the following Programs of Study: Agriculture, Automotive Technologies, Construction Trades, Criminal Justice, Diversified Occupations, Early Childhood and Entrepreneurship. Lack of English language skills will not be a barrier to admission and participation in career and technical education. Inquiries may be directed to the Title IX coordinator, Mr. Derrek Fink at dfink@miltonsd.org, or Mrs. Misty Harris, Supervisor of Special Education and Section 504 Coordinator at mharris@miltonsd.org. Coordinators may be reached via phone at 570-742-7614, option 2.

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GRADUATION REQUIREMENTS

Graduation from Milton Area Senior High School, which is accredited by the Pennsylvania Department of Public Instruction and Middle States Association, must be in accordance with the Graduation standards established by the State Department and the local Board of Education, including Act 158 Graduation Pathways.

The required number of credits for graduation from Milton High School are listed below:

CONTENT AREA	NUMBER OF CREDITS
English	4
Math	4
Science	4
Social Studies	3
Physical Education	2
Health	½
Other Electives	<u>4 ½</u>
Total Credits	22

COURSES

HONORS COURSES

Several elective courses for academic senior high students are designed to stretch the abilities of our most talented students through rigorous mental exercise. These courses require that students do a great amount of research outside of class without specific teacher guidance in order to be prepared for equally challenging sessions with the teacher in the classroom. They are classes designed for the most able students who are intending to further their education.

All colleges and universities ask for a student's transcript, and many specifically ask students to list the honors courses they have successfully completed. It is to the student's advantage to list honors courses; colleges value these credits highly.

The requirements for an Honors Course designation are usually as follows:

1. A commitment to academic excellence.
2. Rigorous scholarship beyond the level found in regular high school courses.
3. Extensive out of class research and development.
4. Some course may require teacher recommendation, Prerequisite, and proficiency on standardized tests.

Honors Courses

Algebra 2	English 9, 10 & 11	Anatomy & Physiology
Geometry	Journalism Editorial	Biology

Trigonometry	French 4	Physics
World History	Spanish 4	Chemistry

ADVANCED PLACEMENT (AP) COURSES

Advanced Placement courses allow students to complete college level coursework while still in high school. These courses require extensive work both in and outside of class and should be selected only by highly capable and motivated students. **Independent readings and additional activities will be required during the summer prior to the start of the class.** All students enrolled in advanced placement courses are expected to take the Advanced Placement Test during the spring of the year they are enrolled in the course. **Students should check with their Guidance Counselors to see if there is any cost that is associated with taking the AP test.** Strong performance on the Advanced Placement Test may allow students to gain college credit prior to officially starting college.

Advanced Placement Courses

AP European History	AP Calculus (AB and BC)	AP Biology
AP US Govt. & Politics	AP Literature & Composition	AP Chemistry
AP Psychology	AP Studio Art	AP Art History
AP World History: Modern		

COURSE WEIGHTING

All Academic/core courses will be weighted at 1.03. All Honors courses will be weighted at 1.05 and all Advanced Placement, PC Now courses, and final level of Career and Technical Education courses will be weighted at 1.07. Weighting will be used to compute students' grade point average and class rank.

EARLY COLLEGE – Commonwealth University (Bloomsburg Univ.)

Milton Area High School participates in the Early College program through Commonwealth University at Bloomsburg. This allows qualified students to take one or more college credits at a reduced rate of \$115/credit or \$345 for a 3-credit course. Further information and application on this program may be found at: <https://www.commonwealthu.edu/early-college>. Students interested in this program should meet with their guidance Counselors to verify credit requirements for graduation

REQUIREMENTS

1. Students are encouraged to schedule required courses for graduation in the fall semester of their senior year. If a required course is not available at Bloomsburg University, the course must be taken at the Milton Area High School.
2. If students fail a required course in the Early College Program during the fall semester, they will be afforded the opportunity to return to the Milton Area High School in the spring semester to reschedule the course.
3. Students may complete physical education requirements as an independent study.
4. It is recommended that students have a minimum 90% cumulative high school GPA before pursuing Early College courses.
5. Transportation to and from Bloomsburg University is the responsibility of students and their families.

PROCEDURES

1. Interested students should see their Guidance Counselor to discuss possible enrollment in the Early College program and to determine what courses are required for graduation.
2. Students should complete the online Early College application at <https://www.commonwealthu.edu/early-college>. and request that their Guidance Counselor send a recommendation letter and academic transcript to Bloomsburg University.
3. Once accepted, students should contact the Early College Coordinator at (570) 389-4824 to schedule an appointment to discuss scheduling classes.
4. Once finalized, students must provide their Guidance Counselor with a copy of their scheduled courses at Commonwealth/Bloomsburg University.
5. After the Early College course is completed, students must provide a grade report to their Guidance Counselor.

NOTES

1. Students may enroll in Milton Area High School classes simultaneously with Early College classes.
 2. Early College students are eligible to participate in high school sports and or extracurricular activities.
 3. Similar to AP, each course passed at Commonwealth/Bloomsburg University will earn 1.5 credits towards high school graduation. Furthermore, each class will be weighted 1.07.
 4. Grades earned from Early College courses will be converted on the high school transcript as follows:

A	95%
A-	92%
B+	88%
B	85%
B-	82%
C+	78%
C	75%
C-	72%
D+	68%
D	65%
F	55%
- * Dreifuss Hackenberg Scholarship – Courses taken in the Early College Program will be included for scholarship consideration. The number of courses receiving AP weight will be determined by the number of AP courses that non-dual enrollment students are able to schedule for that year. If a regular Milton High School Day student is only able to count a maximum of three AP courses, then an Early College student will have three Commonwealth/Bloomsburg courses calculated in the application scoring process at AP weight. Courses with the highest grades will be used for this. All additional Commonwealth/Bloomsburg courses will be counted using honors weighting. Currently, summer courses are not factored into the decision-making process.

DUAL ENROLLMENT PENN COLLEGE (Penn College NOW)

Penn College NOW is a program which allows students to take college classes while in high school. The courses are taught at the high school by Penn College approved high school instructors.

To enroll in a Penn College NOW course, you must pass an entrance level reading and/or math test depending on the course that you are applying for. Certain courses may also require that students meet

pre or co-requisites required for individual courses. 11th and 12th grade students are eligible to participate in the program. A limited number of classes are available to 10th grade students.

Penn College NOW credits will appear on a Penn College transcript and may be applied toward specific Penn College degrees. The extent to which a course will transfer to another college or university is at the discretion of that college or university. The following PC Now Courses are offered at Milton Area High School:

PC Now Chemistry	PC Now Anatomy and Physiology
PC Now Psychology	PC Now English 12
PC Now Intro to Gaming	PC Now Intro to Business
PC Now Programming	PC Now Social Media in Business and Society
PC Now World History	PC Now Sociology
PC Now Medical Terminology	PC Now Family and Consumer Science

Descriptions of these courses can be found at [PC Now Course Descriptions](#).

DUAL ENROLLMENT LACKAWANNA COLLEGE

The Lackawanna College Dual Enrollment Program allows high school students to gain a head start on their college careers within the confines and hours of Milton Area High School. Students may obtain credits in college level courses through Lackawanna College by completing all requirements of the matching course at Milton. The cost is \$100 per credit through Lackawanna College. The following courses are offered:

- Principles of Accounting (Accounting 1 at Milton)
- American Government (American Government at Milton)
- Statistics and Data Analysis (Probability and Statistics at Milton)
- Intro to Literature (English 11 at Milton)
- Intro to Psychology (Psychology or PC Now Psychology at Milton)

CAREER AND TECHNICAL EDUCATION (CTE)

Career and Technical Education (CTE) in Pennsylvania offers students the opportunity to develop critical skills through a combination of classes and hands-on learning experiences, which allow them to apply academics to real-world problems. Milton Area High School is one of the few school districts in the Commonwealth that have what is considered a “Comprehensive High School”, which is a high school that offers its own CTE programs within the building. This is the opposite of being a “sending district”,

in which we would send our students to other institutions to complete these programs. The following programs are offered at Milton Area High School:

- Entrepreneurship
- Agriculture, General
- Automotive Technology
- Construction Trades
- Criminal Justice
- Early Childhood Education
- Education, General
- Diversified Occupations

All of these programs have articulation agreements through the Pennsylvania Department of Education, called the SOAR program, where students can earn free college credits through numerous institutions around the state, or an independent articulation agreement in collaboration with a post-secondary institution.

Please see our CTE Webpage for more information: [CTE Home Page](#)

SOAR ARTICULATION CREDITS

The Pennsylvania Department of Education (PDE) supports Career and Technical Education (CTE) students aligning their high school courses to a college program in order to complete a degree, diploma or certificate.

What is SOAR?

SOAR stands for Students Occupationally and Academically Ready. SOAR programs articulate skills and tasks gained at the secondary school (high school) level to course credit earned in a postsecondary (college) degree, diploma or certificate program. In short, students who complete CTE programs at Milton Area High School can earn anywhere from 6 – 12 free college credits towards their particular career field. Specific information about the articulation agreement can be found in the Guidance office or at www.collegetransfer.net

Milton Area High School Career and Technical Education Programs

Student Placement in Career and Technical Education Programs Administrative Guidelines

The Milton Area High School Career and Technical Education (CTE) Program promotes a limited enrollment policy for CTE programs. Like all courses at Milton Area High School, enrollment in programs is limited by the number of seats available. For those programs which have limited annual

openings, students are considered for placement based on the eligibility criteria listed below. This placement criterion helps to predict an applicant's ability to succeed in a career and technical program.

Administrative Procedure – Principal/Director recommends course limits to Superintendent and all changes are approved by the Board of Education through the approval of the Course Book.

Program Name	Seat Limit
Agriculture	25
Automotive Technology	18
Construction Trades	18
Criminal Justice	25
Diversified Occupations	30
Early Childhood Education	25
Education, General	25
Entrepreneurship	25

All prospective student course selection forms are reviewed until a career and technical education program is at enrollment capacity. Students who are unable to enter a program, based on the following criteria, will be given the opportunity to enter their second or third choice program utilizing the same method. Should all program choices be filled, a waiting list will be kept in ranked order. Students who have Individualized Education Plans, which contain a prescribed career and technical program based on employment capability, will not be required to follow eligibility criteria. In the case of an IEP student, the career and technical education instructor and case manager will discuss what program placement is appropriate for the student.

<u>Criteria</u>	<u>Point Value</u>
Student Interest and Career Pathway	5
Grade Level	10
Discipline	10
Attendance	10
Academic Performance	5

Placement Process

1. **Career Objective Form:** All applicants for career and technical education programs must complete an application during course selection time. Priority for all seats within a program, regardless of capacity, is given to students whose career objectives match the Classification of Instructional Program (CIP) code description and careers affiliated with the CIP code.
 - *A student receives **10 points** for a completed Career Objective Form that aligns with the career occupations and description identified by the CIP code.*
2. **Grade Level:** In keeping with the mission of the Career and Technical Education, placement priority is given to those students who can reasonably expect to reach completer status. A student considered most likely to obtain completer status is one who can enroll in a two-year (720 hours) or a three-year (1080 hours) program and complete the required competencies. Returning students entering their senior year may be given a higher priority to a seat in a career and technical

education program based upon their ability to participate in the program and meet their identified career objective.

*A student receives **10 points** if he/she is able to complete the program and required competencies within a two year or three-year track.*

-or-

*A student receives **10 points** if he/she is only able to participate in the program for one year and still complete his/her career objective*

3. **Attendance:** In respect to the required hours of participation and competencies necessary to achieve completer status in certain programs, a student's attendance record may be considered in the placement process. All absences and their reasons are considered when reviewing an application for these programs. Lengthy illnesses in excess of three days and documented by a physician's excuse are not included in the applicant's attendance record review.
4. **Academic Performance:** In respect to academic performance, all students should be in good academic standing. All core subjects should be passed, and students should not be in conflict due to state required remediation classes. All academic records will be reviewed, and instructors can discuss individual cases with the students' counselor and/or other teachers to discuss current academic standing.

All applicants are ranked. The highest-ranking applicants are selected until all vacancies are filled. If vacancies remain for a program, applicants for a second-choice program are ranked and selected. Students who are not selected for their first or second choice receive a list from the guidance office of programs that still have vacancies. Whenever a selected student cannot fulfill his/her obligation to enroll in a career and technical education program, the highest-ranking applicant on the waiting list is selected. Administration reserves the right to review cases on an individual basis.

Students who relocate to the Milton Area School District after the course selection process has occurred are given equal consideration provided there are seats available in the career and technical education programs.

Students from other school districts can participate in the application process. All out-of-district students will be considered equally, and when questions arise about seat availability the criteria will be evaluated first and then further discussions with the respective building principals will occur.

Students are unable to enter or transfer to a Career and Technical Education program after the September 30th of the current school year.

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Student Appeals Process

Milton Area Career and Technical Education shall attempt to place students in their first or second choice of career technical education programming. Programs currently offered include: Agriculture, Automotive Technology, Construction Trades, Criminal Justice, Diversified Occupations, Early Childhood Education, Entrepreneurship, and Education, General. If a student or the parent/guardian believes the student was not placed appropriately, he/she may appeal the decision to the Director of Career and Technical Education.

Milton Area High School

Career and Technical Education Student Application

Choosing to apply for enrollment in a Career and Technical Education program requires making an informed and responsible career decision. I understand that my success and continued enrollment is dependent on the following:

1. **Regular Attendance:** I understand the expectation that I attend school regularly and on time.
2. **Positive Behavior and Self-Discipline:** I understand that I will be expected to work cooperatively with all staff and students demonstrating respect and self control at all times.
3. **Effort and Safety:** I understand that i will be expected to actively participate in all educational activities as directed by the teacher, achieve to the best of my ability, and adhere to all safety rules and regulations. Furthermore, I agree not to attempt to perform any procedure, use any tools/equipment, or handle any supply or material without proper training and the approval of the assigned teacher. Both the students and the parents acknowledge the inherent risk and potential for injury involved in a CTE program and agree to the requirements as a condition for acceptance.

With the knowledge I have met the required prerequisites, I would like to apply for enrollment in a CTE program.

1.Name

Last Name

First Name

2. Grade Level for Next Year (select one)

- 10th grade
- 11th grade
- 12th grade

3. Please indicate your FIRST CHOICE of a CTE program *

- Agriculture
- Automotive Technology
- Construction Trades
- Criminal Justice
- Diversified Occupations (12th grade only)
- Early Childhood Education
- Education, General (11th and 12th grade only)

- Entrepreneurship (11th and 12th grade only)

4. Please indicate your SECOND CHOICE of a CTE program *

- Agriculture
- Automotive Technology
- Construction Trades
- Criminal Justice
- Diversified Occupations (12th grade only)
- Early Childhood Education
- Education, General (11th and 12th grade only)
- Entrepreneurship (11th and 12th grade only)
-

5. Identify your long-term career goal and explain why you are choosing to pursue this goal. Please use complete sentences. *

6. Describe why you feel you will be successful in this career field. Please use complete sentences.

7. Explain what you have done that has helped you learn more about this career field. Please use complete sentences. *

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NCAA INFORMATION

The NCAA Eligibility Center implements policies to help prepare student athletes for the rigors of college. It also certifies the credentials of students who want to play sports at a NCAA Division I or II academic institution.

The following requirements must be achieved in order for the student to be able to receive a scholarship to a NCAA Division I or II college or university.

Division I: 16 Core Courses	Division II: 16 Core Courses
4 years of English	3 years of English
3 years of math (algebra 1 or higher level)	2 years of math (algebra 1 or higher level)
2 years of natural or physical science (including one year of lab science if offered)	2 years of natural or physical science (including one year of lab science if offered)
1 extra year of English, math, or science	3 extra years of English, math, or science;
2 years of social science	2 years of social science
4 years of additional core courses (from any category above, or in a foreign language, nondoctrinal religion, or philosophy)	4 years of additional courses (from any category above, or in a foreign language, nondoctrinal religion, or philosophy);

For further information please go to the NCAA website.

COURSES

English Courses

English 9

Grade 9

English 9 is a course that is designed from the PA Common Core Curriculum Standards for Composition and English Language Arts. Students will be exposed to the genres of literary fiction, literary non-fiction, and informational texts with emphasis on argumentative and expository composition and integration of text evidence in response to literature. Reading, Writing, Speaking, Listening, Research, and Technology skills will be integrated into each unit throughout the course to help prepare students for the Keystone exams, college, careers, and life-long learning.

Course #101.2

Credit: 1.0

Honors English 9

Grade 9

Recommended Prerequisite: Proficiency on 7th and 8th grade PSSA.

Students will focus intensively on analyzing, producing and revising Informational and Persuasive writing using mostly journalistic non-fiction sources. Some finished student work will be published in the student news magazine and other publications. This class is only available to students who have their 8th grade English teacher's recommendation AND a minimum of a "proficient" score on the 8th grade Reading and Writing PSSA tests. This course demands some out of class hours on the part of the student. **English 9H is required for any student considering taking Journalism.**

Course #101.3

Credit: 1.0

English 10

Grade 10

This course is designed to fulfill the curricular requirements of English as defined by the State and Common Core standards. The class is divided to encompass a wide range literature and genres, allow for close reading of individual texts, enhance grammar skills, and develop vocabulary acquisition. The course will be integrated with ample opportunities to develop a sophisticated writing style and improve as an analytical reader. This class will prepare for the Keystone Exam, careers, and lifelong learning.

Course #111.2

Credit: 1.0

Honors English 10

Grade 10

Course #111.3

Credit: 1.0

Recommended Prerequisite: Proficiency on 7th and 8th grade PSSA.

Classroom instruction will be designed to develop the ability for reading high level literary and nonfiction text, evaluating literature and non-fiction and writing (formally and informally) for a variety of audiences and purposes. Students will conduct research using a variety of reliable sources and will present information orally and in writing. Classroom instruction will include reading, writing, listening and speaking skills as dictated in Pennsylvania's Core Standards.

**English 11
Grade 11****Course #121.2
Credit: 1.0**

This course focuses on the skills required by the Pennsylvania Common Core Standards for 11th grade English Language Arts. Students will read and analyze various American literature texts from the major literary time periods, including fiction and nonfiction, from the works of the earliest settlers through those of contemporary writers. Composition instruction will focus on improving student writing skills in various writing styles through a variety of assignments with an emphasis on the research process and the skills necessary to produce an argumentative research paper. Student vocabulary and grammar skills will continue to be emphasized.

**Keystone Literature
Grade 11****Course #125.1
Credit: 1.0**

Keystone Literature is designed as a full credit replacement for the English 11 requirement. This course focuses on the skills required by the Pennsylvania Common Core Standards for eleventh grade English Language Arts with an emphasis on the skills necessary for proficiency on the Pennsylvania Keystone Literature exam. Students will read, analyze, and evaluate various practice texts and American literature texts from the major literary time periods, including fiction and nonfiction. Writing instruction will focus on strengthening student writing skills through various writing assignments and incorporating research into student work. Student vocabulary and grammar skills will continue to be emphasized and incorporated within the literature and writing units of study.

**Honors English 11
Grade 11****Course #121.3
Credit: 1.0****Recommended Prerequisite: Proficiency on Keystone Literature Exam**

Honors English 11 is designed as a full credit replacement for the English 11 requirement. This advanced course is designed for highly motivated juniors who plan to attend a post-secondary educational institution and desire an intensive, rigorous course in reading and writing. The course focuses on the skills required by the Pennsylvania Common Core Standards for 11th grade English Language Arts. Students will read, analyze and evaluate various American literature texts from the major literary time periods, including fiction and nonfiction, from the works of the earliest settlers through those of contemporary writers. Writing instruction will focus on strengthening student writing skills through intensive and varied writing assignments including analysis and synthesis of varied sources to create research based compositions. Student vocabulary and grammar skills will continue to be emphasized and incorporated within the literature and writing units of study.

**English 12
Grade 12****Course #131.2
Credit: 1.0**

This course is designed to fulfill the curricular requirements of English as defined by the State and Common Core standards. The class is divided to encompass a wide range literature and genres, allow for close reading of individual texts, enhance grammar skills, and develop vocabulary acquisition. The course will be integrated with ample opportunities to develop a sophisticated writing style and improve as an analytical reader.

**PC Now English 12 (Composition 111)
Grade 12****Course #131.3
Credit: 1.0****Recommended Prerequisite: Proficiency on Keystone Literature Exam, passing score on Penn College Placement Test, registration to Penn College**

Fundamental writing and research skills with an emphasis on expository writing. Emphasis on analysis, discussion, and practice of writing that explores, explains, and argues. Coursework includes a significant research component. Course satisfies English Composition 111 or communications elective and General Studies core elective course

**AP Literature and Composition:
Grade 12****Course #182.4
Credit: 1.0**

This course is designed to fulfill the curricular requirements described in the AP English Course Description for Literature and Composition. The class is divided to encompass a wide range of time periods, cultures, and genres and to allow for close reading of individual texts. The course will be integrated with ample opportunities to develop a sophisticated writing style, including appropriate diction, varied syntax, logical organization, substantiated generalizations, apt selection of detail, appropriate tone, and consistent voice. Students will be required to complete summer assignments.

**Creative Writing
Grade 12**

**Course #141.1
Credit: 1.0**

Recommended prerequisite: Pass Keystone Exam and at least a 70% in English 10

This course is provided for students in grade 12 and will focus on developing and showcasing the creative faculties of students. The range of writings will include short story, poetry, and the novel. The class will be in the workshop structure, reviewing model readings and techniques coupled with independent writing time, using the Collins format for process and grading. Writing will be supplemented by reading short essays by literary critics throughout the course and applying subsequent concepts. The novel writing portion of the course will follow the NaNoWriMo schedule, as well as use of some supplementary material. Ideal for students with a creative edge, this course caters to those who long for academic time to evolve a beloved craft and build their personal portfolio.

**Journalism/Reporter
Grades 9, 10, 11 & 12**

**Course #873.2
Credit: 1.0**

Recommended prerequisite: Prerequisite: 9th Grade students should have scored Proficient on the Reading and Writing PSSA AND all students should have a minimum grade of 70% or higher in prior year's English class.

Journalism/Reporter is designed to familiarize students with all phases of newspaper reading and writing as well as to provide a service to the school and community by publishing their own school newspaper. Students are taught to communicate, understand, and respect the written word through the media of newspapers. Specifically, they learn the theory and practice of newspaper writing and evaluation in the areas of news, sports, features, and editorials. The total production of their own school newspaper including planning, writing, editing, photographing, advertising, and laying out gives them practical application of the skills which they are taught. As time permits, students learn design and computer layout of pages. This course demands many out of class hours on the part of the student.

**Journalism/Editorial
Grades 10, 11 & 12**

**Course #875.2
Credit: 1.0**

Recommended prerequisite: Successful completion of Journalism/Reporter

Journalism/Reporter is a Prerequisite for this advanced course in Journalism. Areas taught in Journalism/Reporter are reviewed and expanded. The student in Journalism/Editorial accepts more responsibility in various editors' positions on the staff of the school paper. Design and computer layout of pages is learned and mastered. Students also run a news bureau, and are responsible for writing school press releases for the local newspaper. Advanced study of professional publications takes place with emphasis on the power and responsibility of the media. In continuation of this, students study and experience radio and television broadcasting as time permits. This course demands many out of class hours on the part of the student.

Math Courses

**Consumer Math
Grades 11 & 12**

**Course #200.1
Credit: 1.0**

Prerequisite: Teacher Recommendation

The Consumer Math curriculum teaches students about financial literacy. Lessons include engaging students with discussions about cognitive biases, conversations on banking apps, and reading articles about investing. Content is given mathematical applications to enrich student understanding. By the end of this course, students will have a thorough understanding of personal finance topics and be prepared to handle the financial responsibilities that exist after graduation.

**Pre-Algebra
Grade 9**

**Course #211.1
Credit: 1.0**

Pre-Algebra focuses on student computation. Skills practiced in Pre-Algebra are existing pre-algebra mathematical skills that will accelerate response time, increase confidence, and induce familiarity with computational skills including but not limited to: adding, subtracting, multiplying, dividing, listing multiples, determining factors, computing rates, and comparing real numbers. Students are placed in this class on teacher/administrative discretion.

**Keystone Algebra
Grades 9, 10, & 11**

**Course #201.1
Credits 1.0**

This course is designed to reinforce algebraic concepts necessary to apply in future courses and to successfully complete the Keystone Algebra State Exam. This course will provide a structure a review and apply key concepts of eligible content on the state exam. **Students will be identified based on previous Algebra scores and data obtained through testing as well as teacher recommendations.**

- Algebra 1** **Course #211.2**
Grade 9 & 10 **Credit: 1.0**
Prerequisite: Teacher Recommendation
 This course will provide a structure to apply key concepts of the PDE Algebra 1 Eligible content. Topics include operations with real numbers, polynomials, systems of linear equation and inequalities, functions, coordinate geometry, data analysis and probability. **This course is a foundational course and serves as the main Prerequisite for every other high school class.**
- Algebra II** **Course #221.2**
Grades 9, 10, 11, & 12 **Credit: 1.0**
Recommended Prerequisite: Algebra 1
 This is the second course in our two year Algebra sequence and is a continuation of the Algebra 1 curriculum. Topics include analyzing the characteristics of polynomial, rational, exponential, and logarithmic function families. Other topics from the PDE Keystone Algebra II Eligible Content include an introduction to complex numbers, basic sequences, and modeling data with regression equations.
- Honors Algebra II** **Course #221.3**
Grade 9, 10, 11, & 12 **Credit 1.0**
Recommended Prerequisite: Minimum grade of 85% in Algebra 1 & proficiency on Keystone Exam.
 This second course in our two year Algebra sequence and is a continuation of the Algebra 1 curriculum. Topics include analyzing the characteristics of polynomial, rational, exponential, and logarithmic function families. Other topics from the PDE Keystone Algebra II Eligible Content include an introduction to complex numbers, basic sequences, and modeling data with regression equations. The honors course will be more in depth with more rigor and application of content.
- Geometry** **Course #231.2**
Grades 9, 10, 11 & 12 **Credit: 1.0**
Prerequisite: Algebra 1
 Geometry is a mathematics course designed to give students an in-depth study of measurements, properties, and the relationships of points, lines, angles, surfaces, and solids. Special emphasis will be placed on application and the nature of proof and students will experience writing proofs in two-column form. The learning of theorems, postulates, definitions, and vocabulary is essential.
- Honors Geometry** **Course #231.3**
Grades 9, 10, 11 & 12 **Credit 1.0**
Recommended Prerequisite: Minimum grade of 83% in Algebra 1
 This class takes the classical approach to Euclidean or planar geometry. Reasoning and logic skills will be honed through problem solving, concept application, and proving the properties of parallel lines, triangles, quadrilaterals, and circles. Other topics from the PDE Keystone Geometry Eligible Content include transformation, right triangle trigonometry, area, solids, and geometrical probability.
- Trigonometry/Pre-Calculus** **Course #241.2** **Grades**
10, 11 & 12 **Credit: 1.0**
Recommended Prerequisite: Minimum grade of 83% in Algebra 2
 By building upon the concepts presented in algebra and geometry, this course helps prepare the student for more advanced mathematics and science courses. This course will cover exponential and logarithmic functions, sequences and series, triangle trigonometry, trigonometric graphs and identities, coordinates, inverse functions and equations, and analytic geometry. For the student who does not plan to take advanced courses, trigonometry should prove helpful when taking the basic college mathematics course needed to meet college graduation requirements.
- Honors Trigonometry** **Course #241.3**
Grade 10, 11 & 12 **Credit: 1.0**
Recommended Prerequisite: Minimum grade of 83% in Algebra 2
 This course is for students who are planning to take either Honors Calculus or AP Calculus in their senior Year. This course will build upon the concepts presented in algebra and geometry, and help prepare students for advanced mathematics and science skills. This course will cover the following concepts: polynomials, exponential and logarithmic functions, trigonometry functions, parametric equations, polar equations, and an introduction to calculus. The pace of the material presented in this course is geared to preparing students for an Advanced Placement Program.
- Probability and Statistics** **Course #261.2**
Grades 11& 12 **Credit: 1.0**
 This course is designed to teach the field of statistics for the college bound student. The content of the course will be taught in four units: Descriptive Statistics, Probability, Inferential Statistics Concepts, and Inferential Statistical Methodology. Topics to be covered are Introduction to Statistics, Displaying Data, Frequency Distributions, Measures of Central Tendency, Measures of Dispersion, Describing Individual Performances, Elementary Probability, Probability Distributions, Applied Sampling,

Estimation, Hypothesis, Testing, Correlations, Regression Analysis, t-Test, Analysis of Variance, and Chi Square. There is also an ACCSTAT Computer Program that will be utilized for the course.

AP Calculus AB
Grade 11 & 12

Course #281.4
Credit: 1.0

Prerequisite: Minimum grade of 83% in Trigonometry

Calculus is a mathematics course which studies change and motion. The course covers differential and integral calculus. The course content follows the Advanced Placement Course Description and students are expected to take the Advanced Placement test near the end of the year. Calculus provides methods to find rate of change, slope of a curve, velocity of an object and much more. It uses algebra, trigonometry, and analytic geometry. Calculus opens doors to the study of many other areas. This is an excellent course for exceptional math students.

AP Calculus BC
Grade 12

Course #283.4
Credit: 1.0

Prerequisite: Minimum grade of 83% in AP Calculus AB/teacher recommendation

AP Calculus BC is designed to be the equivalent to both first and second semester college calculus courses. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. AP Calculus BC applies the content and skills learned in AP Calculus AB to parametrically defined curves, polar curves, and vector-valued functions; develops additional integration techniques and applications; and introduces the topics of sequences and series.

Science Courses

Ecology
Grade 9th

Course #331.1
Credit: 1.0

Ecology is the study of how organisms interact with the environment and with each other at the population, community, and ecosystems levels. The goal of this course is to familiarize you with ecological theory and its applications.

Biology
Grade 10&11

Prerequisite Ecology or equivalent to Ecology

Course #331.2
Credit: 1.0

This course is designed for all students. The following areas are covered: Basic biological principles, chemical basis for life, ecology, bioenergetics, homeostasis and transport, cellular growth and reproduction, genetics, and the theory of evolution. In each area the students are made aware of the interrelationships that exist within the living world and life's dependence on the non-living one. The course will meet daily for one year. There is also a required Keystone exam at the end of the course.

Honors Biology
Grade 9

Course #331.3
Credits 1.0

Based on PVAAS student projection reports and 8th grade Science PSSA results;

This course is designed for all students. The following areas are covered: basic biological principles, chemical basis for life, ecology, bioenergetics, homeostasis and transport, cellular growth and reproduction, genetics, and the theory of evolution. In each area, the students are made aware of the interrelationships that exist within the living world and life's dependence on the nonliving one. The course will meet daily for one semester. There is also a required Keystone exam at the end of the course.

Chemistry
Grades 10 & 11

Course #351.2
Credit: 1.0

Recommended Prerequisite: Enrolled in Algebra 2.

This course is designed for students expecting to pursue formal education after high school. The students will develop an understanding of the basic principles of chemistry and their applications to other fields of science. The students will gain skills using unit factor methods in problem solving. They will apply the laws and theories of chemistry in a mathematical manner. Laboratory skills will be developed through practice. The division is approximately 20% laboratory, 40% problem solving and 40% chemical principles and theories. This course meets every day for one block.

Honors Chemistry/PC Now Chemistry
Grades 10 & 11

Course #351.3
Credits: 1.0

Recommended Prerequisite: Enrolled in Algebra 2 or a higher math, Honors Biology

Honors Chemistry will be a first-year chemistry course for students covering basic chemistry information at a relatively fast pace and including related math and content in each unit. This chemistry course is designed for students planning on continued education in the science fields and who have a strong math background. It is a Prerequisite for AP Chemistry and for AP Biology. Some students may take Organic Chemistry simultaneously with Honors Chemistry, though it is recommended to take Organic after a first-year chemistry course. This course should follow Honors Biology (or a proficient or better in the Biology Keystone) and successful completion of algebra 1. It will be offered as an option to Chemistry 1.

Honors Chemistry 2
Grades 11 & 12

Course #353.3
Credit: 1.0

Recommended Prerequisite: Successful completion of Honors Chemistry and enrolled in Trigonometry or higher math, or instructor recommendation.

This course is designed for students who want additional chemistry experience or in preparation for AP chemistry. Students will develop an understanding of advanced principles of chemistry and their applications to other fields of science. Students will gain skills to increase scientific literacy in thermochemistry, equilibrium, reaction rates, acids and bases, oxidation-reductions, electrochemistry, and functional groups of organic chemistry. They will apply the laws and theories of chemistry in a mathematical manner. Laboratory skills are developed through practice. The division is approximately 15% laboratory, 45% problem solving and 40% chemical principles and theories. This course runs EVERY OTHER YEAR ON ODD YEARS (2023, 2025 etc.) and meets every day for one block.

AP Chemistry
Grades 11 & 12

Course #382.4
Credits: 2.0

Recommended Prerequisite: Minimum grade of 83% in Chemistry

The AP Chemistry course meets the entire year, with a whole block every day for each semester. It is designed to deliver to the student the knowledge equivalent to either three quarters or two semesters of college level chemistry. The class will also prepare the student to take the AP exam in May. The course is an intensive study of freshman college chemistry, which includes college level laboratory activities. The course is extremely fast-paced and requires an average of one hour per night of study time. Prerequisite for AP Chemistry is a mid-B year average for Chemistry 1A. Those students who choose to take this class with such an average or better will have a good chance for success in AP Chemistry.

AP Biology
Grades 11 & 12

Course #381.4
Credit: 2.0

Prerequisite: Minimum grade of 83% in Biology, or Honors Biology 1, Chemistry 1, and Algebra 2.

The purpose of this advanced level course is to prepare students for college level concepts in the Biological Sciences. The course content follows the Advanced Placement Course Description provided by The College Board. Students will take the Advanced Placement test in May. Subject matter centers on the following topics: cell physiology, biochemistry and molecular biology, botany, evolution, virology, bacteriology and genetics. The course is an intensive study of freshman college biology, which includes college level laboratory activities. The course is extremely fast-paced and requires an average of one hour per night of study time. The Advance Placement course is designed for students who will major in Science, Mathematics, Engineering, or Pre-Med, but is also a path for other college-bound students to receive a college Biology credit.

Intro to Physics
Grades 10, 11 & 12

Course #371.1
Credit: 1.0

Prerequisite: Minimum grade of 70% in Algebra 2 or currently enrolled in Algebra 2

This course will cover a wide range of basic physics concepts. These concepts will be viewed from a more practical side with some theoretical concepts. Topics such as the relationship between energy and forces, the study of Newton's laws of motion, and the problem-solving method will be discussed, along with exploring the physics behind the operation of everyday items such as tools and machinery. This course is intended to provide an understanding of how physics affects and describes our everyday lives. This course would benefit students pursuing careers which would not require advanced science studies, as well as technical students wanting to understand the science behind today's technology.

Physics
Grades 10, 11 & 12

Course #371.2
Credit 1.0

Prerequisite: Minimum grade of 70% in Geometry or currently enrolled in Geometry

This course will cover a wide range of basic physics concepts. These concepts will be viewed from the theoretical side and a more practical side. Topics such as the relationship between energy and matter, the study of Newton's laws of motion, and problem-solving using vectors will be discussed. Exploring the physics behind the operation of everyday items such as tools and machinery. This course is intended to provide an understanding of how physics affects and describes our universe. This course would benefit students pursuing careers which would not require advanced science studies, college bound students looking to pursue a non-STEM major, and technical students wanting to understand the science behind today's technology.

Honors Physics**Grades 10, 11 & 12****Course #372.3****Credits 1.0****Prerequisite: Minimum grade of 80% in Trigonometry or currently enrolled in Trigonometry.**

This course will cover many of the same topics as Intro to Physics, however with much greater depth. The major focus of the course will be vector algebra, kinematics (study of motion), Newton's Laws of Motion, momentum work, power, and energy. Activities will involve the study of physics theories along with problem solving and laboratory work. This course would benefit students pursuing careers which would require advanced science studies and college bound students looking to pursue a STEM major.

Honors Physics 2**Grades 11 & 12****Course #371.3****Credits 1.0****Prerequisite: Minimum grade of 80% in Physics or Honors Physics**

Honors Physics 2 will continue off of Physics 1 and Honors Physics. This course focuses on understanding and applying understanding of the flow of electricity through the devices we use today along with a variety of topics covered in a Physics 101 and 102 course. This course is recommended for any student looking to understand how electricity works or focusing on engineering as a potential career.

Environmental Science**Grades 10, 11 & 12****Course #321.1****Credit 1.0**

Environmental Science is a course that is very lab and project based. This course will cover topics related to preserving our environment and making us better caretakers of the earth. Current topics of study include climate change, oceanography, water quality, energy and mineral resources, and PA environmental history. Upon successful completion of this course, students should be able to use the scientific skills and process and major environmental science concepts of understand interrelationships of the natural world and to analyze environmental issues and their solutions.

PC Now/Honors Anatomy and Physiology**Grades 11 & 12****Course #345.3****Credit: 1.0****Prerequisites: Biology or Honors Biology and Chemistry**

This course will give students a thorough background in the systems that make up 75-80% of an initial college level Anatomy and Physiology course or Human Biology course. The text used in this class is a college level book that emphasizes deductive reason and critical thinking. This class will study human body systems as they build on the concept of homeostasis and how body systems relate to each other. Therefore, memorization of material is not as important as the understanding of concepts and their use.

PC Now Medical Terminology**Grades 11&12****Course #346.3****Credit: 1.0**

Foundation for the use of the language of medicine, with emphasis on correct pronunciation and spelling, various word parts, abbreviations and symbols, and terms pertaining to body systems. Etiology, symptomatology, pathology, and diagnostic procedures for identifying various disease processes provide an increased understanding of medically related conditions and procedures.

History and Social Sciences Courses

US History 2**Grade 9****Course #431.1****Credit: 1.0**

US History 2 is designed to teach students about their cultural and intellectual heritage. Students will explore the economic, social and political events that have shaped the United States from 1866 - Present. Cause and effect relationships will be emphasized throughout the course. Some of the topics covered will include the road to Reconstruction, American Westward Expansion, American Imperialism, Reform Movements in the early 20th Century, the Great Depression, American involvement in two world wars, the Cold War, and the United States in the world today.

World History**Grade 10****Course #411.2****Credit: 1.0****Recommended Prerequisite: U.S. History 2**

World History is designed to teach students about the political, economic, and cultural traditions that have formed the basis for modern western civilization. Students will explore the relationship between the western nations and other regions of the globe from the 1400s to present day. Major topics will include the Renaissance & Reformation, Age of Exploration, Enlightenment & French Revolution, Industrial Revolution, World War I, World War II and the Cold War & Decolonization.

Honors World History**Grade 10****Course #411.3****Credit: 1.0**

Recommended Prerequisite: Earned at least a 90% in U.S. History 2

Honors World History is designed to teach students about the political, economic, and cultural traditions that have formed the basis for modern western civilization. Students will explore the relationship between the western nations and other regions of the globe from the 1400s to present day. Major topics will include the Renaissance & Reformation, Age of Exploration, Enlightenment & French Revolution, Industrial Revolution, World War I, World War II and the Cold War & Decolonization. Honors World History will include a greater emphasis on writing and historical analysis.

**PC Now World History (AP World History:Modern)
Grades 10, 11, & 12**

**Course #411.4
Credit: 1.0**

Recommended Prerequisite: Pass Penn College placement test and registration to Penn College.

World History since 1500 C.E. is a college level introductory survey of the world's major civilizations from the age of global expansion in the sixteenth century. The emphasis will be on the distinctive and interconnected histories and cultural values that shaped major regions and cross-cultural contacts between those regions in the early modern and modern eras. Students will learn how early modern societies adapted their environments, organized their political economies, shared technology and ideas as well as being drawn into conflict with one another. The course provides a historical overview of global changes over time. Equal emphasis is placed on the political, economic, and social development of Western and non-Western societies. This course represents the equivalent of Penn College's World History II (History 126). Successful completion of the course will earn 3 Penn College credits transferable to a select number of colleges. Students will be given the opportunity to take the AP World History Modern Exam at the end of the course.

**American Government
Grade 11**

**Course #452.2
Credit: 1.0**

Recommended Prerequisite: US History 2 and World History

This course is about government in the United States: the way it is organized, the way in which it is controlled by the people, and the various ways in which it completes its responsibilities. Our American system is dynamic and driven by the great living document – the Constitution. It is always changing, adapting, and growing though its fundamental principles and basic structure remain constant. This course will attempt to take the many conflicting parts (Constitution, Congress, The Presidency, Courts, Political Parties, Electoral Process, Civil Liberties) and show how they interrelate in forming a functioning Government. This course meets every day for one year.

**AP U.S. Government and Politics
Grades 11& 12**

**Course #481.4
Credit: 1.50**

Recommended Prerequisite: Earned at least a 90% in US History 2 and/or Honors World History

AP U.S. Government and Politics is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of U.S. government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis.

**AP European History
Grades 10, 11 & 12**

**Course #483.4
Credit: 1.0**

Recommended Prerequisite: Earned at least a 90% in U.S. History 2

AP European History is designed to be the equivalent of a two-semester introductory college or university European history course. In AP European History, students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations.

**Modern World
Grades 11, 12**

**Course #421.1
Credit: 1.0**

Recommended Prerequisite: U.S. History 2 and World History

Modern World is designed to teach students about the major events that have shaped the United States and the world since the end of World War II. We will examine U.S. foreign policy decisions and their impact on our relationship with other countries. The course is divided between the Cold War (1945 – 1991) and the War on Terrorism (1982 – Present). Major topics include the Space Race, Cuba, Vietnam War, Iranian Revolution, Soviet-Afghan War, Collapse of Soviet Union, Yugoslav Wars, 9/11/2001, Wars in Afghanistan (2001) and Iraq (2003), the Arab Spring, and the Russo-Ukrainian War (2022). The goal of the class is to give students a better understanding of the role of the United States in the modern world. This class includes a film study component which has students analyze films that relate to major topics discussed throughout the course.

**Ancient Civilizations and Mythology
Grades 11 & 12**

**Course #461.2
Credit: 1.0**

Recommended Prerequisite: U. S. History 2 and World History

Ancient Civilizations & Mythology is designed to teach students about the political, economic, and cultural traditions of ancient groups that have formed the foundation for modern civilization. Students will explore major contributions to civilization beginning with Ancient Egypt and ending with Feudal Japan in the 16th century. The class will also examine mythological stories of prominent civilizations such as Ancient Egypt, Ancient China, Greeks & Romans and Norse. Additional topics covered will include Mesopotamia, Ancient India, Ancient American civilizations, Middle Ages Europe and the Rise of Islam.

Psychology**Grades 11 & 12****Course #471.2****Credit: 1.0**

The purpose of this course is to give students an overview of general psychology. The course will include a history of psychology, contemporary perspectives, research methods, methods of observation, and case studies. The sciences of biology and chemistry will be linked to psychology through other topics which will include sensation and perception, states of consciousness, learning, abnormalities, and psychological disorders. This course will also briefly cover human development from infancy to adulthood, and gender roles and sexuality. Throughout the course, the theories of Freud, Erikson, Piaget, Chodorow, and Gilligan will be examined.

AP Psychology**Grades 11 & 12****Course #491.4****Credit: 1.0**

This course will provide students with an in-depth view of psychology. It is primarily designed for students who are considering a major in any branch of psychology, education, social work, counseling, therapy, or psychiatry. Some of the topics covered in the class will include states of consciousness, intelligence, addiction, research methods, genetics, abnormalities, psychological disorders, rare human disorders, life span development, personality theory, emotions, gender roles, and human sexuality. The course will also examine the theories of Watson, Jung, Skinner, Freud, Erikson, Piaget, Chodorow, and Gilligan. The course is the equivalent of a college level course in general psychology. Students are expected to take the Advanced Placement Test near the end of the school year.

PC Now Psychology**Grades 11 & 12****Course #471.3****Credit: 1.0**

Recommended Prerequisite: Pass Penn College placement test and registration to Penn College.

PC Now Psychology is a class that is intended to provide an introductory look into human behavior and mental processes. This course gives the student credit for Penn Colleges' Psychology 111. Introductory psychology includes an examination of the relationships between the nervous system and behavior, learning, perception, language, personality, intelligence and psychopathology. Introduction to the science of human behavior and mental processes.

PC Now Sociology**Grades 11 & 12****Course #473.1****Credit: 1.0**

Recommended Prerequisite: Pass Penn College placement test and registration to Penn College.

PC Now Sociology is the introduction to the theories, principles, concepts, and major research in sociology. Study includes society's impact on human behavior and consciousness as well as the ways in which individuals and groups affect cultures and their social structures. A comparison of different cultures and subcultures provides an understanding of the relativity and universality of social values, norms, and beliefs.

Student Leadership**Grades 9,10, & 11****Course #****Credit: 1.0**

This course converges the study of leadership principles with the action of building a healthy schoolwide culture and climate. Leadership theories, concepts, and skills are analyzed through class instruction and interactive activities. This is also extended through service learning experiences specifically designed to positively affect the school's culture and climate, physical campus experience, as well as stakeholder trust and morale. The greater purpose of this course is to create students who effectively embody leadership in action, not just in title. This course will meet daily for the full school year. Students eligible for this course will be based on teacher recommendation.

Physical Education and Health Courses**Physical Education****Grade 9****Course #701.1****Credit: .50**

This course will be paired with Computer Application for Academic Personal & Career Success (see description for this course under Business Electives)

Physical Education**Course #771.1**

Grades 10, 11, 12**Credit: 1.0**

Physical Education is designed to introduce students to a variety of different activities that could potentially increase ones level of fitness. The emphasis is placed on activities that students can participate in throughout a lifetime not just in high school. It is important for students to understand that there are a variety of different ways to improve one's fitness level other than just a traditional workout. Some of the activities students will participate in are soccer, badminton, volleyball, basketball, strength training, ultimate Frisbee and more.

Health**Course#741.1****Grade 11 Requirement****Credit: .50**

The World Health Organization's definition of good health is "The state of complete mental, physical, and social well being, not just the absence of disease." Based on this definition, the 11th grade health class will include information from all three aspects of good health. Some of the major topics covered in this course will be stress, drugs, alcohol, tobacco, fitness, nutrition, and disease, mental health, and healthy relationships.

Adaptive Physical Education**Course #771.1****Grades 9, 10, 11 & 12****Credit: 1.0**

Adaptive Physical Education is a diversified program for students whose physical **limitations** restrict their participation in the vigorous activities of the general physical education program. This program presents the students with developmental activities, sports, games, and rhythms suited to the interest and capabilities of each individual student. Identification and assignment of students for this program is done through the combined effort of the program instructor, school nurse, guidance counselor, building principal, and physician's recommendation.

ELECTIVES

Art Electives

Foundations of Art**Course #561****Grades 9, 10, 11, 12****Credit: 1.0****Recommended Prerequisites: None**

This course is designed as an introduction to all of the other courses offered in the art program. Successful completion of this course is required for advancement to other art courses. In this course students will develop fundamental skills in the following areas: drawing, design, pottery, sculpture, painting, art history, and career opportunities in the field of art. Class projects, homework, tests, and participation will be used for evaluation. This course is recommended for all incoming freshmen who wish to continue the exploration of visual arts throughout their high school career. This course will meet daily for one year.

Pottery**Course #556.1****Grades 10, 11 & 12****Credit: 1.0****Recommended Prerequisites: Successful completion of Foundations of Art**

This course includes studio work in hand building and wheel throwing techniques. Hand built techniques of pinch, coil, and slab will be covered. Historical and cultural aspects of pottery will be discussed. Class projects, homework, tests, and participation will be used for evaluation. This course meets daily for one year.

Advanced Pottery**Course 556.3****Grades 11 & 12****Credit: 1.0****Recommended Prerequisites: Successful completion of Foundations of Art and Pottery**

Students will utilize skills learned in Pottery to create multiple forms and implement advanced techniques in pottery. Explore current and historical methods of hand building, throwing, and mold making. Learn and implement advanced skills in ceramic building, forming, glazing. Demonstrate knowledge of previous and new techniques in ceramics in the creation of unique art forms. Make informed judgements by applying the four steps of art criticism to his or her artwork and the work of his or her peers. This course meets daily for one year.

Drawing and Painting**Course #552.3****Grades 10, 11, 12****Credit: 1.0****Recommended Prerequisites: Successful completion of Foundations of Art.**

This course offers an exploration of the various two-dimensional drawing and painting techniques and media including pencil, colored pencil, pastel, watercolor, and acrylic paint. Class projects, homework, and participation will be used for evaluation. This course meets daily for one year.

Advanced Drawing and Painting**Course #552.5****Grades 11 & 12****Credit: 1.0****Recommended Prerequisite: Successful completion of Foundations of Art and Drawing and Painting.**

This course will offer an emphasis on the art forms of Drawing and Painting at an Advanced level. Students will work with various media encompassing the Two-Dimensional art forms. This course will meet daily for one year.

3D Design

Grades: 10, 11 & 12

Course #563

Credit: 1.0

Recommended Prerequisite: Successful completion of Foundations of Art

In this class students will learn about the history and diversity of three-dimensional art. Three-dimensional art will encompass sculpture as well as crafts. Student will create a variety of three-dimensional works using a variety of different techniques. Class projects, homework, tests, and participation will be used for evaluation. This course meets every day for one year.

Advanced Studio

Recommended Grade: 12

Course #562.1

Credit: 1.0

Recommended Prerequisite: Successful completion of Foundations of Art, Drawing and Painting, and Advanced Drawing and Painting.

The primary purpose of this course is to give advanced art students the opportunity to explore individual ideas, develop skills, and build a solid diverse portfolio that could be used as a college entrance requirement. For college bound art students, it is recommended to take this course the second semester of their junior year, and the first semester of their senior year. This will allow time for portfolio development and refinement prior to submitting their portfolio to a university. This course will meet daily for one year.

Partner Art

Recommended Grades: 10, 11, & 12

Course #551.1

Credit: 1.0

Recommended Prerequisite: Teacher Approval

This course offers students the opportunity to work collaboratively in the art room with their peers and teacher. Students will create, plan, and execute lesson plans and projects in the art classroom. Students will contribute to the artist community, by building and encouraging positive relationships and experiences with their peers in the art room. Class projects, lesson planning, and participation will be used for evaluation. This course meets daily for one year.

Business Electives

Career, Academic and Personal Success – (CAPS)

Course #860.1

Grade 9 – Required for all 9th grade-paired with Phys. Ed. 9

Credit: .50

Students will explore technology tools and refine computer skills that are essential for academic, personal and career success. The content of this course includes but is not limited to electronic research methods; communication skills including speaking, listening, writing, and telecommunication; multimedia presentation skills; ethical considerations related to technology; and emerging technologies affecting academic, personal career environments. Project topics to include careers, technology, study skills, 21st century skills, and cross-curricular learning.

Sports and Entertainment Marketing (SEM)

Course #803.1

Grades 10, 11 & 12 (Suggested 10th)

Credit: 1.0

This course is designed to teach the basics of marketing including advertising, sales, event marketing and communications. The business of entertainment, including movies, concerts, theme parks, and sporting events have a tremendous impact on our economy and provide many career opportunities. These activities are global in their reach and impact. Sports marketing is a growing division of the marketing field that focuses on the business of sports and the use of sports as a marketing tool. This class will provide students with an over-view of the sports and entertainment field from a business and marketing perspective.

PC Now Introduction to Business

Course #801.1

Grades 10, 11 & 12

Credit: 1.0

Introduction to a variety of business concepts and practices that impact all organizations, as well as the knowledge and skills needed to be successful in an organization. Topics include interpersonal communications, emotional intelligence, economics, accounting, and finance and investments. An integrative approach connects topics and provides context within organizational environments, relevance to current business situations, and advances across various fields of business. **Pennsylvania College of Technology credits may be earned upon successful completion of this course.**

Accounting 1

Course #901.1

Grades 10, 11 & 12

Credit: 1.0

This course is designed to enable a student to independently work through an accounting cycle from analyzing transactions to preparing a post-closing trial balance. Students are instructed in the following areas: accounting concepts, accounting ethics, journalizing transactions, posting, and preparation of work sheets and financial statements. A chapter in banking is also included. Students will learn to write checks, prepare deposit slips, and reconcile the checkbook and bank statement. Students will demonstrate their acquired accounting abilities by completing required business simulations and various other projects

throughout the semester. Students entering the accounting course should possess good math skills, organizational skills, and a liking for detail work.

**Accounting 2
Grade 12**

**Course #903.1
Credit 1.0**

Recommended Prerequisite: Minimum grade of 80% in Accounting 1

Basic principles and application of financial accounting for student interested in furthering their education in accounting. Preparation and interpretation of financial information are emphasized. Course work provides the accounting knowledge necessary for success in more advanced accounting courses and in the business field.

**L.I.F.E. (Law, Investment, Financial Education)
Grades 11 & 12**

**Course #809.1
Credit: 1.0**

This course provides basic knowledge of our legal and financial environment and helps facilitate understanding of the laws that govern human conduct in a civilized society. The law portion of the course will include topics such as consumer law, the court system, civil and criminal law, rights and duties of minors and parents, contracts, employer/employee relationships, and landlord/tenant laws. The financial portion of the course will emphasize budgeting, saving and investing, as well as developing an understanding of stocks, bond, mutual funds, and other investment terminology. To reinforce learning, students will play the Stock market Game. In addition, students will also learn about credit cards, credit scores, and identity theft. They will also learn the importance and benefits of building a good credit history. This course is designed to provide the student with a valuable and practical foundation to benefit them in everyday life situations.

**PC Now Social Media in Business & Society (BIM120)
Grades 11 & 12**

**Course #802.1
Credit: 1.0**

Recommended Prerequisite: 75% (C) minimum overall GPA.

Examination of the strategic use of social media for personal, professional, and business communication, advertising, and marketing. Course work includes using various social media tools, creating and sharing content, and collaborating on group campaigns using social media for social change. Includes analysis of current and emerging social media tools from a personal and business perspective.)

Career and Technical Education

**Automotive Technologies I
Grades 10, 11 & 12**

**Course #931.1
Credits: 3.0**

**Automotive Technologies II
Grades 11 & 12**

**Course #933.1
Credits: 3.0**

**Automotive Technologies III
Grade 12**

**Course #935.1
Credits: 3.0**

These courses are designed to develop the student's knowledge and skills in all areas of automotive repair. The student will have intensive theory and hands-on shop experience in the following areas: automotive careers and certifications (Career Safe OSHA-10, Section 609, PA Safety Inspection) hand power and measuring tools, shop safety, engine rebuilding, fuel, electrical and cooling systems. Heating and air-conditioning systems, emission control systems, automotive drive train, tire and wheel service, and computerized, high-speed balancing equipment. Students will practice their skills on actual vehicles under close supervision from the instructor. Students will learn how to use the computerized shop manuals and locate repair procedures, wiring diagrams, service bulletins, and recall information from dealerships and manufacturers; also, how to write work orders and inventory systems. The student will be trained on how to use the alignment machine, brake lathe, tire balancer/changer along with classroom theory. The advanced student will also be educated on how to pass the Pennsylvania State Inspection license test, both written and practical sections, and opportunity to earn a Pennsylvania Skills Certificate for high performance on the exit (NOCTI) exams. This test is state mandated and is given after school hours by professionals from industry. Students must achieve a 75% or higher to advance to the next level.

**Construction Trades 1
Grades 10, 11 & 12**

**Course #921.1
Credits: 3.0**

**Construction Trades 2
Grades 11 & 12**

**Course #923.1
Credits: 3.0**

Construction Trades 3
Grade 12

Course #925.1
Credits: 3.0

Major Areas of Study: Masonry, Carpentry, Residential Electricity, Residential Plumbing (some HVAC and introductory welding overview may be possible). Safety Training is integral to all areas. The purpose of this program is to provide its graduates with the safety training and specific knowledge, skills, and employability attributes needed to gain entry-level employment in the residential and light commercial building construction occupations with a competitive edge over untrained job seekers. Live work sites are the most effective training venue and shall be used whenever possible. The instructor chooses work sites primarily on the basis of the students' training needs. School and Community work has first preference if program needs are met. Mechanical aptitude and geometry skill are especially helpful. Math skills are essential. This course is physically demanding at times in terms of lifting, climbing, balancing, etc. The instructor shall not be responsible for incidents resulting from students who fail to disclose limiting conditions which may compromise student safety. Employability attributes such as attendance, safety, and personal management skills comprise 1/3 the grade. The balance of the grade shall be earned from 1/3 of grade tests and quizzes and 1/3 of performance projects. The fully completed three-year program yields 9 graduation credits and the opportunity to earn a Pennsylvania Skills Certificate for high performance on the exit (NOCTI) exams. After completing this course many colleges are available for those intending to further their education. Students must achieve a 75% or higher to advance onto the next level.

Early Childhood Education 1
Grades 10, 11, & 12

Course #941.1
Credits: 3.0

ECE I is designed to prepare students for careers in teaching and child care. Emphasis is placed on different types of early childhood programs, responsibilities of a teacher, observation tools for assessments, and child development: birth through middle childhood. Students will learn about the theorists relevant to education. In addition, students will learn about creating a safe and healthful environment through preparing the environment, selection of materials, promoting children's safety, and planning nutritious meals and snacks. Students will have the opportunity to interact with young children in the Pre-K Counts classroom on a regular basis. Students will be required to obtain a child abuse, a criminal record, and FBI clearance before working with children. There are no prerequisites but Child Development with a passing grade is strongly advised).

Early Childhood Education 2
Grades 11 & 12

Course #943.1
Credits: 3.0

ECE II is designed to prepare students for careers in teaching and child care. This level will be very similar to a practicum experience. Emphasis is placed on guiding children's health, guiding children positively, establishing routines, and creating learning experiences for children such as planning curriculum and writing lesson plans. Students will have the opportunity to interact with young children in the Pre-K Counts and elementary classrooms on a regular basis. Students must complete ECE 1 with a 75% or higher to take this course. (Prerequisite: Early Childhood Education I)

Early Childhood Education 3
Grade 12

Course #945.1
Credits: 3.0

ECE III is designed to prepare students for a career in early childhood education. Students will be placed at internship/employment sites around the community to get a hands-on experience of the daily job requirements. Students will be required to complete trainings that are relevant to the topic of study through PA Keys or Penn State Better Kid Care Extension and some off site events. Students can earn a Pennsylvania Skills Certificate for high performance on the exit (NOCTI) exams their senior year. Students also complete their CDA binder through the year. After completing all three levels of this course, many colleges offer FREE college credits for post-secondary education. (Luzerne County Community College, Lock Haven University, Harrisburg Area Community College, and Montgomery County Community College are just a few in our area) Students are at their internship/employment site Monday-Thursday and then return on Fridays for instruction in the classroom- a majority of the work is independent assignments similar to a college course. (Prerequisites: Early Childhood Education II with a 75% or higher)

Criminal Justice 1
Grades 10, 11, & 12

Course #981.1
Credits: 3.0

A program that prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control and public relations, witness interviewing, evidence collection and management, basic crime prevention methods, weapon and equipment operation and maintenance, report preparation and other routine law enforcement responsibilities. Students must achieve a 75% or higher to advance to the next level.

Criminal Justice 2
Grades 11 & 12

Course #982.1
Credits: 3.0

A program that prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control and public relations, witness interviewing, evidence collection and management, basic crime prevention methods, weapon and equipment operation and maintenance, report preparation and other routine law enforcement responsibilities. Students can earn a Pennsylvania Skills Certificate for high performance on the exit (NOCTI)

exams their senior year. After completing all three levels of this course, many colleges offer FREE college credits for post-secondary education. (Lackawanna College) Students must achieve a 75% or higher to advance to the next level.

**Criminal Justice 3
Grade 12**

**Course #983.1
Credits: 3.0**

A program that prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control and public relations, witness interviewing, evidence collection and management, basic crime prevention methods, weapon and equipment operation and maintenance, report preparation and other routine law enforcement responsibilities. Students can earn a Pennsylvania Skills Certificate for high performance on the exit (NOCTI) exams their senior year. After completing all three levels of this course, many colleges offer FREE college credits for post-secondary education. (Lackawanna College).

**Diversified Occupations
Grade 12**

**Course #951.1
Credits: 6.0**

The DO program allows students to split their time between academic courses and part-time work in career fields that interest them. Students may enroll in DO during their 12th grade year. Students who are in good standing academically and on track for graduation may be released from school half days to work. Students are required to meet weekly with a certified, professional school-to-career coordinator from MASD who helps them develop 21st century skills, such as collaboration, critical thinking and problem solving. Weekly competency-based instruction takes place at the sending school with the cooperative coordinator and students are formally evaluated by both the cooperative coordinator and the employer each marking period. A mandatory meeting is required prior to beginning the course as well as electronic paperwork.

**Introduction to Secondary Education
Grades 11 & 12**

**Course #947.1
Credit: 1.0**

Introduces students to the teaching process. Diverse instructional strategies and techniques, methodologies, and approaches are explored. Students will learn to develop instructional objectives and how to create lesson plans and teaching strategies. Other topics include: Design and analyze assessments and identify how to incorporate results into the instructional planning process, identify educational resources and evaluate uses in the classroom. This course runs a full academic year, and is part of the first year of the Education, General scope and sequence. Students must achieve a 75% or higher to advance to the next level.

**Introduction to Secondary Education 2
Grade 12**

**Course #949.1
Credit: 1.0**

This course is a continuation of Introduction to Secondary Education, and continues to examine multiple elements of the teaching process including; Identify classroom modifications and accommodations to meet the needs of all students, identify and practice strategies for supporting positive student behavior, practice planning, sharing, and working collaboratively to improve instructional skills, student success and the professional culture and climate of the school, classroom management and procedure theories. This course runs a full academic year, and is part of the final year of the Education, General scope and sequence.

**Education, General Internship
Grade 11, 12**

**Course #949.2
Credit: 1.0**

**Education, General Supervised Teaching Experience
Grade 12**

**Course #949.3
Credit: 1.0**

Education, General Internship and Supervised Teaching Experience are courses designed to provide real world teaching and education experience to aspiring future educators. Students will have the opportunity to observe a variety of classrooms and reflect upon learning environments and classroom management, as well as participate in an elementary, middle, high school, career and technical center or cross-grade instructional program. Students will meet with mentor/cooperating teacher and plan for active participation in the classroom. These experiences will be planned, organized and carried out in collaboration with a classroom teacher, as well as the high school Cooperative Education Coordinator. Students will be expected to complete 90 hours in both the first and second year of the Education, General program. Flexibility within a student's daily schedule will be created in conjunction with their respective guidance counselor.

**Introduction to Agriculture, Food, and Natural Resources (AFNR)
Grades 9, 10, 11, & 12**

**Course# 305.1
Credit: 1.0**

Introduces students to agricultural opportunities and pathways of study in agriculture. Science, mathematics, reading, and writing components are woven in the context of agriculture and students will use the introductory skills and knowledge developed in this course throughout the Agriculture curriculum. Throughout the course are activities to develop and improve employability skills of students through practice applications. Students explore career and post-secondary opportunities in each area of the course. Students experience hands-on activities, projects, and problems. Student experiences involve the study of communication, the science of agriculture, plants, animals, natural resources, students learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning.

Agriculture 1
Grades 10, 11, & 12

Course #991.1
Credits: 2.0

This required course for Agriculture CTE students focuses on three primary areas of knowledge and skill development in the Agriculture CTE students focuses on three primary areas of knowledge and skill development in the Agriculture Science Career Pathways. 1. Mechanical Technology and Mechanization 2. Leadership and Supervised Agricultural Experiences (SAEs) and 3. Plant Science. This course will also touch briefly on the fourth primary area of knowledge and skill development in the Agriculture Science Career pathway, 4. Food Science. Students will set up and maintain their SAE within the Agricultural Experience Tracker (AET) and utilize their SAE as a platform to explore the primary knowledge areas within this course. Students are required to contribute 120 hours of time to their SAE in addition to 120 hours of time in class and will concurrently enroll in SAE 10. Students will also earn their OSHA 10 Certification throughout this course that they can apply to their future careers. Students will work on major projects and problems like those that specialists in the Agricultural field face in their respective careers by improving their investigative, experimental, and communication skills. Students must achieve 75% or higher to move onto the next level.

Agriculture 2
Grades 11 & 12

Course #992.1
Credits: 2.0

This required course for Agriculture CTE students focuses on three primary areas of knowledge and skill development in the Agriculture CTE students focuses on three primary areas of knowledge and skill development in the Agriculture Science Career Pathways. 1. Mechanical Technology and Mechanization 2. Leadership and Supervised Agricultural Experiences (SAEs) and 3. Plant Science. This course will also touch briefly on the fourth primary area of knowledge and skill development in the Agriculture Science Career pathway, 4. Food Science. Students will continue to improve their SAE within the Agricultural Experience Tracker (AET) and utilize their SAW as a platform to explore the primary knowledge areas within this course. Students are required to contribute 120 hours of time to their SAE in addition to 120 hours of time in class and will concurrently enroll in SAE 11. Students in this course will have experiences in various animal science concepts with exciting hands-on activities, projects, and problems. Students will specifically learn the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. Students will also earn two certifications in this course that they can use towards future careers. Students will work on major projects and problems like those that specialists in the Agricultural field face in their respective careers by improving their investigative, experimental, and communication skills. Students must achieve 75% or higher to move onto the next level.

Agriculture 3
Grade 12

Course 993.1
Credits: 2.0

This required course for Agriculture CTE students focuses on the final primary area of knowledge and skill development in the Agriculture Science Career Pathway, Agribusiness. Students are required to find either a paid or unpaid position in an agricultural career field of their choice. Students will continue to improve their Supervised Agricultural Experience (SAE) within the Agricultural Experience Tracker (AET) and utilize this platform to gain experience in the primary knowledge areas that have been taught throughout the Agriculture CTE program at Milton Area High School. Students are required to contribute 205 hours of their time to their SAE/placement and 35 hours of time in class. Students will also concurrently enroll in SAE 12. The student's placement should provide them with hands-on opportunities, projects, and problems. Students in Agriculture 3 should participate in capstone or internship. During the weekly classroom meeting, students will complete reflections and small group discussions about their placement and how the material from class is used in real-life experiences. Upon completing this course, students will be tested with the General Ag Production NOCTI.

Supervised Agriculture Experience (SAE)

Course # 994.1
995.1, or 996.1
Credits: 1.0

Grades 10, 11, & 12

An SAE or a Supervised Agricultural Experience is a student-managed project where CTE students own and operate an agricultural business, get a job or internship, plan and conduct scientific experiments, or explore careers within the agricultural industry. The agricultural science instructor supervises these outside of class projects as students maintain accurate records within the online Agricultural Experience Tracker (AET) record keeping system. Students are not allowed to use project time and class time together (FFA requirement). The SAE is a required component of a total agricultural education program and intended for every student. Through their involvement in the SAE program, students are able to consider multiple careers and occupations, learn expected workplace behavior, develop specific skills within an industry, and are given opportunities to apply academic and occupational skills in the workplace or a simulated workplace environment. Through these strategies, students learn how to apply what they are learning in the classroom as they prepare to transition into the world of college and career opportunities. This is a requirement for every student that takes Agriculture 1, Agriculture 2, and Agriculture 3. Student must achieve a 75% or higher to advance to the next level.

Entrepreneurship Course Description – ADD ONE
Grade 11 & 12

Course: 807.1
Credit: 1.0

Students will be able to define entrepreneurship; identify the risks and rewards of entrepreneurship; compare and contrast entrepreneurship to traditional employment; and analyze entrepreneurship as it relates to personal career goals and corporate opportunities. Students will be able to describe the character traits of successful entrepreneurs, such as, but not limited to: adaptability, creative thinking, ethical behavior, leadership, positive attitude, and risk-taking; discuss the entrepreneurial

character traits of historical or contemporary entrepreneurs; evaluate how entrepreneurial character traits influence career opportunities; and analyze entrepreneurship as it relates to personal character traits.

Capstone

Course #955.1

Grade 12

Credit: 1.0-3.0

The CTE Capstone course provides students with a comprehensive experience designed to bridge the gap between academic learning and the professional world. Through a combination of classroom instruction and real-world work placements, students will develop essential employability skills, including communication, teamwork, problem-solving, professionalism, and career-specific technical expertise. Throughout the capstone, students will build a portfolio that demonstrates their skills and achievements. The goal of this course is to prepare students to be career-ready, adaptable, and confident as they transition to postsecondary education or enter the workforce. Students must be in their senior year enrolled in one of the CTE programs with their instructor’s approval and application process completed.

CTE Scope and Sequences

Entrepreneurship

This program is offered through a scope and sequence of courses that must be taken throughout the course of a student’s high school career (via Business Department electives). Courses must be taken in order. The chart below details this scope and sequence:

Grade (Hours)	Grade 11	Grade 12
CTE Courses	Accounting 1	Accounting 2
	Entrepreneurship	L.I.F.E.
	PC Now Intro to Business	PC Now Social Media in Business and Society

Agriculture

This program is offered through a scope and sequence of courses that must be taken throughout the course of a student’s high school career. Courses must be taken in order. The chart below details this scope and sequence:

Grade (Hours)	Grade 10	Grade 11	Grade 12
CTE Courses	Supervised Agriculture Experience 10	Supervised Agriculture Experience 11	Supervised Agriculture Experience 12
	Agriculture 1	Agriculture 2	Agriculture 3

Education, General

This program is offered through a scope and sequence of courses that must be taken throughout the course of a student’s high school career. Courses must be taken in order. The chart below details this scope and sequence:

Grade (Hours)	Grade 11	Grade 12
CTE Courses	Intro to Education 1	Intro to Education 2

	PC Now Sociology	PC Now Psychology
	Supervised Internship (90 hours)	Supervised Teaching Experience (90 hours)

Technical Education/Computers

Introduction to Woodworking Grades 9 & 10

**Course #961.1
Credit: 1.0**

This course provides students an opportunity to learn the basics of wood working, measurement, reading plans and basic tool use. Safety practices are emphasized and students will manufacture 3-4 teacher-selected projects.

Woodworking 1 Grades 10, 11 & 12 No Prerequisite

**Course #963.1
Credit: 1.0**

This course places emphasis on foundational skills as they pertain to woodworking. Power tools and machinery are central components as well as a wide variety of woodworking techniques and joinery methods. Students have a variety of differing wood types and finishes to choose from in order to manufacture 4 teacher selected projects. Customizing projects is allowed to a small degree.

Woodworking II Grades 10, 11 & 12

**Course #965.1
Credit: 1.0**

Recommended Prerequisite: Minimum grade of 75% in Woodworking 1

Woodworking 2 is an intermediate level course devoted to the manufacture of at least two major projects. One selected by the teacher the other by the student. Students have a high degree of freedom to customize and individualize all of their projects. More advanced joinery and woodworking techniques are introduced as well as additional wood types to choose from.

Woodworking III Grades 10, 11, & 12

**Course #967.1
Credit: 1.0**

Recommended Prerequisite: Minimum grade of 85% in Woodworking 2

Woodworking 3 is an advance course of independent study. Students have complete freedom to choose and develop their own projects to include plans, joinery, wood type and customization. Self-motivation is key as the student is the driver of all the work and the teacher is more of a resource and sounding board.

Woodworking IV Grades 11 & 12

**Course #969.1
Credit: 1.0**

Recommended Prerequisite: Minimum grade of 85% in woodworking 3

Woodworking 4 is an advance course of independent study that allows students to further their woodworking skills learned in woodworking 3. Students have complete freedom to choose and develop their own projects to include plans, joinery, wood type and customization. Self-motivation is the key as the student is the driver of all the work and the teacher is more of a resource and sounding board.

Introduction to Adobe Photoshop, Computer Graphics & Multimedia Grades 9, 10, 11 & 12

**Course #841.2
Credit: .50**

Adobe Photoshop is a powerful application for color painting, photo retouching, and image editing. This program is commonly used by graphic designers, multimedia specialists, videographers, and Webmasters to create compelling images for print and/or electronic distribution. This class will cover image basics, Photoshop's work area, modifying images with selection tools, how to work with layers, masks and channels, photo retouching, pen tool techniques, creating special effects, along with how to use printers, scanners and digital cameras. Grades for this course will be based on completing required class assignments, tests and daily productivity. Introduction to Computer Graphics & Multi-Media is designed to spark interest in various computer software and prepare that student for advanced study in High-Tech Lab 1. Students will work on numerous pieces of software for a period of 3 to 4 weeks giving the student the opportunity to study 4 to 5 pieces of software. Course content emphasis is on graphics for print and multimedia. Topics include 2D and 3D graphics, animation, video editing, website construction, and current computer topics.

Programming Grades 9, 10, 11 & 12

**Course #845.2
Credit: 1.0**

The class will give the student an overview to the basic principles of programming and is recommended to any student wishing to seek a computer science degree in post-secondary school. To achieve this overview, the instructor will make use of the following computer languages: C++ and HTML. Students will be expected to acquire a working knowledge of machinery, the C++ and HTML computer languages and write various programs. Career options, software, evaluation, and a historical overview will be

presented throughout the semester. Students will also be expected to acquire a working knowledge of machinery, visual basic computer language and write various programs. Career options, software, evaluation, and a historical overview will be presented throughout the year.

Desktop Publishing and Advanced Publishing and Design
Grades 9, 10, 11 & 12

Course #823.2
Credit: 1.0

This class will introduce the workings of a Macintosh computer and the application of desktop publishing software. The course will focus on two pieces of software: Adobe InDesign and GoLive. InDesign will be used to create and publish printed materials. GoLive will be the tool for creation of electronic media. Students will learn about production of published materials such as brochures, magazines, journals, yearbooks, and web pages. Students will also be instructed in the operation of a scanner and digital camera, and how to place captured graphics into documents. Some PhotoShop skills will be introduced along with the incorporation of multimedia in web pages. This class will also provide education in design, graphics, and the process to create a multi-page document. Building on the skills learned in Desktop Publishing students will learn to process leading to the creation of a yearbook and playbook. The focus of the class will be the Jostens Yearbook Curriculum.

School Publications
Grades: 10, 11 & 12

Course #821.2
Credit: 1.0

Recommended Prerequisites: Desktop Publishing and Advanced Publishing and Design-Course

Recommended Prerequisite: 85% in Advanced Publishing & Design. It is also recommended that students have completed Introduction to Adobe Photoshop and Introduction to Graphics & Multi-Media.

This class will be responsible for the creations of school publications (yearbook, playbills, Prowling the Halls videos and WebPages). Students will use class time, advanced programs, and research to create written and graphic materials for the student body, administration, sports teams, clubs, and staff. Students will have to meet deadlines and create a project of their own to be completed upon the instructor's review. Students in School Publications and Journals 2 will have managerial and editing responsibilities.

PC Now Introduction to Gaming and Simulation
Grades 11 & 12

Course #849.2
Credit: 1.0

Prerequisite: Pass Penn College Placement Exam

Introductory topics include gaming industry history, game development processes, game genres, storyboarding, game environment, character design, interface design, game play, AI, the psychology of game design, and professionalism. Study provides overall view of the gaming and simulation components. Practical hands-on application includes using a simple game environment to design and write simple games. (Students have the option to take this class for 3 college credits through the Pennsylvania College of Technology. Students electing to do this must pass the Pennsylvania college of Technology Achievement Test.

PC Now Intro to Programming
Grades 11 & 12

Course #845.3
Credit: 1.0

Introduction to Programming (CIT 160, 3 credits) Introduction to problem-solving techniques, elementary programming, and application of these techniques in developing structured programs. A current high-level language is used to illustrate the implementation phase of program development. Prerequisites: Placement by Examination

Communications Media (TV Studio)
Grades 9, 10, 11, 12

Course #825.2
Credit: 1.0

Students will learn all tasks involved in the daily operations of a television broadcasting facility, including equipment operation, electronic news gathering and media processing, work flow, non-linear editing, in-field remote production, photography, videography, post production, file conversion and application. Regular tasks will require all students to become proficient in mid-level to advanced applications within Final Cut Pro, Adobe Photoshop, and Microsoft Works. The course begins with an emphasis on digital and film photography and includes best practices in composition, as well as technical and craftsmanship skills. First year students will also be introduced to principles of graphic design and will demonstrate their use through regular assignments. Students will also be introduced to the application and interface of digital and analog hardware within the requirements of specific needs in video production and will demonstrate competence and teamwork required to produce video content for a variety of programs including informational, educational, documentary, and sports broadcasting. Advanced students will also complete lessons in the application of HTML and use WordPress software systems to modify or create web applications

Family and Consumer Science Electives

Recommended Prerequisite: All students must take Nutrition Food and Wellness before taking any other food related courses.

Nutrition Food and Wellness Grades 9, 10, 11 & 12

**Course #785.2
Credit: 1.0**

This course is an introduction to the basic principles of nutrition, wellness, and food preparation. The focus of the course is centered on healthy food and lifestyle choices. The general goal is to enhance student awareness in regards to personal food choices and physical activity. The overall goal for all levels of the foods program is to enhance student knowledge of food choices and to motivate students to improve their choices.

Baking and Pastry Arts Grades 10, 11, & 12

**Course #787.2
Credit: 1.0**

Recommended Prerequisite: Nutrition, Food and Wellness with a 70%

Baking & Pastry Arts prepares you for successful careers as baking and pastry professionals through building a strong foundation of principles and skills, and then using specific applications and recipes. Once these techniques are understood and practiced, you will be able to prepare a wide array of baked goods, pastries, and confections.

PC Now Family and Consumer Science Grades 11 & 12

**Course # 786.1
Credit: 1.0**

Introduction to professional food preparation skills and kitchen organizational practices through theory and performance-based learning lab activities. Theory relates manual skills to basic production techniques. Principles of class cooking methods, heat transfer, knife skills, 2 ingredient identification, sensory analysis, and industry professionalism are emphasized.

Child Development Grades 9, 10, & 11

**Course # 946.1
Credit 1.0**

Child Development is a course designed to provide students with an overview of child development from conception to elementary aged children. In the beginning of the course, students will be learning about birth control methods, conception, development of the baby, child birth, and common birth defects. As the course continues, students will learn about the cognitive, social-emotional and physical development of children as they mature. An empathy belly will be used during class as well as the simulated babies.

Foreign Language Electives

Spanish 1 Grades 9, 10, 11 & 12

**Course #601.2
Credit: 1.0**

Recommended Prerequisite: Minimum of 75% in previous year's English course

Spanish 1 is a course that introduces the student to the structure of the Spanish language. Culture is also incorporated throughout the year. Instruction is presented in both Spanish and English. This course uses a variety of resources including a textbook to help the student master basic concepts of the Spanish language. Students learn about various Spanish-speaking countries, vocabulary, grammar, and culture. Approximately six chapters are covered in the program along with varied outside activities. This course is designed for non-native Spanish speakers.

Spanish 2 Grades 10, 11 & 12

**Course #603.2
Credit: 1.0**

Recommended Prerequisite: Minimum grade of 75% in Spanish 1

This course is a continuation of the level 1 book, *Ven Connigo*. Students will further their knowledge of present tense verbs and will begin using verbs in the past tense. They will also learn about direct, indirect, and reflexive pronouns. Vocabulary lessons will include the home, making and accepting invitations, food and drink, holidays and the human body. Students will use reading, writing, listening and speaking skills in the classroom, while gaining more information on Spanish culture. Spanish will be spoken frequently in class.

Spanish 3
Grades 11 & 12

Course #605.2
Credit: 1.0

Recommended Prerequisite: Minimum grade of 75% in Spanish 2

Students will continue in the *Ven Conmigo* series, this year in the level 2 book. They will build upon their knowledge of grammatical structures, including past tense verbs, making requests, and using pronouns. They will also use vocabulary relative to the family, places around town, weather, the school, etc. Students will continue to develop their speaking, writing, reading, and listening skills, and they will learn more about the Hispanic culture. Spanish will be spoken frequently in class.

Spanish 4 Honors
Grade 12

Course #607.3
Credit: 1.0

Recommended Prerequisite: Minimum grade of 80% in Spanish 3

Students will continue in the *Ven Conmigo* series and will complete the level 2 book this year. They will build upon their knowledge of grammatical structures and will increase their collection of vocabulary. Students will continue to develop their speaking, writing, reading, and listening skills, and they will learn more about the Hispanic culture. Various projects, reading assignments and writings will be included in the curriculum. Spanish will be spoken daily and students will be expected to ask questions and respond almost entirely in Spanish.

French 1
Grades 9, 10, 11 & 12

Course #611.2
Credit: 1.0

French 1 introduces students to the structure of the French Language, and uses a variety of resources including a textbook to help students master basic concepts of the French language. Instruction is presented in both French and English while students learn vocabulary, grammar, and culture. All students will apply reading, writing, listening and speaking skills in the classroom. Approximately eight chapters of the textbook are covered in the program along with varied extra activities. Vocabulary lessons include greeting and feelings, introducing oneself, describing people and things, expressing likes/dislikes, telling time, talking about school and describing family and where one lives, traveling in and around France and Canada. Grammar lessons include sentence structure, regular and irregular verbs in the present tense, and adjective agreement. Culture lessons include French geography, greetings, social customs, friends, school environment, families, housing, and taking trips.

French 2
Grades 10, 11 & 12

Course # 612.1
Credit: 1.0

Recommended Prerequisite: Minimum grade of 75% in French 1

This course is a continuation of French 1. Students will further their knowledge of verb tenses beyond the present tense. They will also learn about direct, indirect, and reflexive pronouns. Vocabulary lessons include sport/activities, shopping, daily routine, health, travel and hotels, making arrangements. Grammar lessons include regular and irregular verbs in the present tense and in the passé compose, reflexive verbs, adjective agreement/ comparative/ superlative/ placement. Culture lessons include the importance of food and fashion industries in Francophone nations, popular sports and activities, hotels, banks, and electronic media. Students will use reading, writing, listening and speaking skills in the classroom, while gaining more information on Francophone culture. French will be spoken frequently in class. This course is in-person.

French (Levels 1-3), German (Levels 1-4), and Latin (Levels 1 – 4)
Grades 9, 10, 11, 12

Milton High School students will have the ability to take the foreign languages of French, German, and Latin (3 levels in French, 4 levels in German and Latin). These classes will be taken through our online cyber program. Students will be able to take these courses in a structured online study section, where they will be provided a full block of time to work on the online foreign language course.

IEP Courses

Integrated Math 1
Grade 9

Course #2005.1
Credit: 1.0

This course must be scheduled through the IEP process.

Integrated Math is designed to improve basic math skills in order to help students be more successful in High School level math courses. Students eligible for this course have been recommended by their teachers based on previous math assessment scores and ability. Topics covered include computation, solving equations, and graphing. Opportunities for OVR (Office of Vocational Rehabilitation) to provide transition services and lessons will also be incorporated into the curriculum.

Intedkograted English
Grade 9, 10, 11 & 12

Course #2004.1
Credit: 1.0

This course must be scheduled through the IEP process.

Integrated English students will learn and apply language arts skills, including reading, writing, speaking, and listening according to their individual ability level. Spelling, vocabulary, and grammar units will also be incorporated throughout the curriculum to support student literacy skills. This course is aimed at developing the language arts skills students will need to be successful in the workforce. Students eligible for this course have been recommended by their teachers based on previous math assessment scores and ability. In addition, opportunities for OVR (Office of Vocational Rehabilitation) to provide transition services and lessons will also be incorporated into the curriculum. As such, students will receive direct teacher instruction, collaborative learning, and opportunities to use technology.

Enrichment
Grades 9, 10, 11 & 12

Course # 2901.1
Credit: N/A

This course must be scheduled through the Gifted Individualized Education Program (GIEP) Process

This course is designed to satisfy the needs to gifted learners who maintain the capacity to learn at faster rates, more in-depth and with greater complexity; the capacity to find, solve, and act on problems more readily; and the capacity to manipulate abstract ideas and make connections. Enrichment will be offered in regular education classes with specifically designed instruction relating to the GIEP goal(s) that tailor the student's instructional needs by the Regular Education and Enrichment Teachers.

Music and Theater Arts Electives

Modern Combo**Course #503.1#503.1****Grades 10, 11, 12 (9 with instructor permission only)****Credit: 1.0****Recommended Prerequisite: passing Guitar 1 with at least a 93%, or permission of the instructor.**

Develop basic skills on a variety of instruments and techniques, which will allow students to play in a rock, pop, country, or praise band combo. Basic instruction will be given on guitar, keyboards, drums, singing, and use of contemporary devices (PC, iPhone, etc.) as a music creation and production device. Basic instruction on arranging and performing simple songs will be the day to day work in this course. This course will include hands-on instruction in playing in a small combo. Support skills for a variety of instruments will be at the core of this course. "Round Robin" techniques within stations will frequently be used as a method of learning. Real life skills of personal responsibility, teamwork, and negotiation will be modelled and encouraged. **Completion of Guitar Class with a Final Grade of 93% is a prerequisite for entry into this class, or permission of the instructor. Class size is limited to 12 students.**

Music Appreciation**Course #504.1****Grades 9, 10, 11, & 12****Credit: 1.0**

Music Appreciation is a survey course that allows students to take a deeper look into the broad field of music. This course will cover topics in music theory and composition, music history, world music, musical theater, popular American music styles, music performance, and music technology. Creating active music listening skills is a central component of this course. No prior music performance experience needed! The main objective of this course is to expose students to the diverse world of music and create lifelong consumers, creators, and appreciators of music.

Guitar**Course #525.1****Grades 9, 10, 11 & 12****Credit:****1.0**

This course will provide students with instruction in playing and maintaining the guitar. The student will learn note, rhythm reading, melodies, and chord accompaniment. Past musical or guitar training is not required. The class will make extensive use of tablature ("tabs") notation to teach and read music. Guitars are available for classroom use, but must remain in the building.

Guitar 2**Course # 525.2****Grades 10, 11 & 12****Credit: 1.0****Recommended Prerequisite: Guitar 1 with at least a 90%, or permission of the instructor.**

This course will provide students with more in-depth instruction in playing the guitar. The student will learn note, rhythm reading, melodies, and chord accompaniment. The class will be assigned specific guitar parts within each song, in order to create a Guitar Ensemble. The class will make extensive use of tablature ("tabs") notation to teach and read music. Guitars are available for classroom use, but must remain in the building.

Instrumental Music – Wind Ensemble**Course #521.1****Grades 9, 10, 11 & 12****Credit: 1.0**

Recommended Prerequisite: Students attending Wind Ensemble should have at least 1 prior year of playing a band instrument or have a recommendation from a music teacher.

Students will study and perform popular and standard concert band literature as well as solo and small ensemble music on their chosen band instrument. Band members will be required to attend at least 4 small group lessons per academic quarter where they develop the skills, techniques, and knowledge necessary to successfully play their instruments. Students are required to attend the holiday concert, spring concert, graduation, and other performance opportunities as presented.

Senior High Concert Choir
Grades 9, 10, 11 & 12

Course #533.1
Credit: 1.0

Concert Choir is a non-auditioned choral ensemble for students interested in learning and singing a diverse repertoire of choral music. Emphasis will be placed on correct singing techniques, and the skills and knowledge necessary to make music a life-long pursuit. Opportunities for solo work and smaller ensembles will also be offered. Students will be required to attend and perform at a minimum of 3 concerts per year, as well as Baccalaureate and Graduation and vocal labs (sectionals) each marking period.

Instrumental Music-Wind Ensemble / Concert Choir Combo
Grades 9, 10, 11 & 12

Course #531.2
Credit: 1.0