

East Pennsboro Area High School

2019-2020
Program of Studies



*World Class Performers
Productive Citizens*

Introduction

Earning an education is one of the most important tasks young people have to accomplish as they transition into adulthood. This process becomes progressively more important and often more difficult as students move from middle school into high school.

East Pennsboro Area High School offers a broad curriculum with specific elective courses that will, to a large extent, determine the options available to students once they graduate and look for work. Creating a strong academic history that is both challenging and enjoyable will promote personal satisfaction and access to a wider world of opportunity after graduation!

It is important to consider your future goals and dreams as you select courses for next year. The world of work is rapidly changing as existing jobs become more complex and new jobs demand increased levels of education.

Career planning is a life-long process that begins with the selection of courses during the high school years.

It is important for underclassmen to think two and three years ahead and consider how this year's course selections might have an impact upon future opportunities, not just seniors.

Choosing classes, however, is only part of the obligation students must undertake in school. Studying, preparation, participation, hard work, and, above all, disciplined behavior and a positive attitude are just as important as the classes you take in achieving a well-rounded high school education.

A decision about your program of studies is not made by you alone. It is a cooperative effort on the part of you the student, parents, teachers, counselors, and administrators.

*Take hold of your destiny
and become a world class performer
and a productive citizen!*

NOTICE OF EQUAL OPPORTUNITY

East Pennsboro Area School District is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex or disability in its activities, programs or employment practices as required by Title VI, the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and Section 504 of the Rehabilitation Act of 1973.

For information regarding civil rights or grievance procedures, contact the Title IX Coordinator or Section 504 Coordinator at 890 Valley Street, Enola, PA 17025 (717-732-3601). For information regarding services, activities, and facilities that are accessible to and usable by persons with a disability, contact the Supervisor of Special Education (717-732-3601).

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SCHOOL COUNSELING SERVICES

School Counselors at East Pennsboro Area Senior High School are available to help students understand their strengths and abilities, as well as to help them connect these interests with a career path for life after graduation. They can help students define goals and learn about occupational areas. Most important, they wish to help students develop as individuals and to be able to obtain the tools and skills to reach future goals. Students are *highly* encouraged to meet with their counselors to discuss course selection.

There are a variety of factors to consider when making course selections:

- ✓ Career goals and plans for post-high school training
- ✓ Graduation requirements
- ✓ Levels and weights of courses
- ✓ Sequential subjects and prerequisites
- ✓ Achievement record
- ✓ Aptitude
- ✓ Interests

School Counselor Contact Information

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CAREER READINESS

To support student career exploration and preparation, the East Pennsboro Area School District is streamlining our course selection process to help students identify one of five CAREER PATHWAYS. All courses have identified career pathways associated with them to help students determine which courses will be most relevant to preparing them for a career within their specific career pathway. Career pathways are flexible, as student needs and goals may change over the course of their high school education.

<p style="text-align: center;">Five East Pennsboro Career Pathways</p>	<p style="text-align: center;">16 Career Clusters <i>(as identified by the National Association of State Directors of Career Technical Education Consortium)</i></p>
<p style="text-align: center;"><u>Arts and Communications (AC)</u> Cultivate student awareness, interpretation, application, and production of visual, verbal, and written work</p> <p style="text-align: center;"><u>Business and Computer Science (BCS)</u> Cultivate student awareness and skills for careers in the world of business, finance, information technology, and computer science</p> <p style="text-align: center;"><u>Engineering and Industrial Technology (EIT)</u> Cultivate student interest, awareness, and application to careers related to technologies necessary to design, develop, install, and maintain physical systems</p> <p style="text-align: center;"><u>Human Services (HS)</u> Cultivate student awareness of and skills for careers in education, counseling and social work, law enforcement, government, and hospitality and tourism.</p> <p style="text-align: center;"><u>Science and Health Services (SHS)</u> Cultivate student interest in life and physical sciences, including the planning, managing, and providing of health information and the creation of and interpretation of scientific data and research</p>	<p style="text-align: center;"><u>Arts and Communications (AC)</u> Performing and Visual Arts Audio/Video Technology Communications/Journalism</p> <p style="text-align: center;"><u>Business and Computer Science (BCS)</u> Business, Management, and Administration Finance Marketing, Sales, and Service Information Technology</p> <p style="text-align: center;"><u>Engineering, Industrial Arts, and Technology (EIT)</u> Architecture and Construction Manufacturing Science, Technology, Engineering, and Mathematics Transportation, Distribution, and Logistics</p> <p style="text-align: center;"><u>Human Services (HS)</u> Government and Public Administration Hospitality and Tourism Human Services (Education, Counseling, Social Work) Law, Public Safety, Corrections, and Security</p> <p style="text-align: center;"><u>Science and Health Services (SHS)</u> Health Science Agriculture, Food, and Natural Resources Science, Technology, Engineering, and Mathematics</p>

GRADUATION REQUIREMENTS

East Pennsboro Area High School transitioned from a trimester schedule to semester schedule beginning in the 2017-2018 school year. This transition requires a pro-rated adjustment to graduation and promotion requirements as listed below.

In addition, students must receive a minimum score of “proficient” on the following keystone exams: Algebra I (usually taken in 8th or 9th grade), Biology (usually taken in 10th grade), and English Literature (usually taken in 10th grade). Should a student score “below basic” or “basic” on any of the Keystone exams he/she will be placed in a keystone remediation course in that specific subject area(s).

All students must also meet attendance requirements and complete all elements of Project Independence, which is an interdisciplinary project integrated into the required curriculum for all students. (See Board Policy #217)

For the Class of 2020, students shall meet the following minimum credit requirements in order to graduate from high school:

<u>Course</u>	<u>Required Credits</u>
English	4.0
Science	3.0
Math	3.0
Social Studies	3.5
PE / Health / Driver's Ed	2.0
(PE credit 1.0, Health credit .75, Drivers Ed credit .25)	
Career Education	0.5
Economics/Personal Finance	0.5
Computer Elective	0.5
Electives	8.5
Total	25.5 Credits

For the Class of 2021 and beyond, students shall meet the following minimum credit requirements in order to graduate from high school:

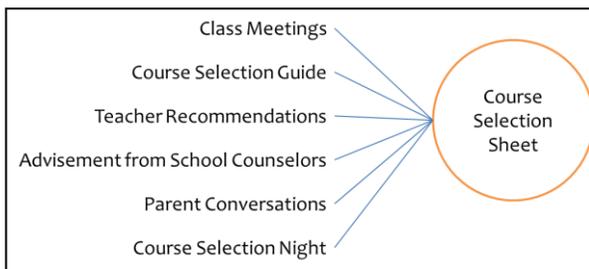
<u>Course</u>	<u>Required Credits</u>
English	4.0
Science	3.0
Math	3.0
Social Studies	3.5
PE / Health / Driver's Ed	2.0
(PE credit 1.0, Health credit .75, Drivers Ed credit .25)	
Career Education	0.5
Economics/Personal Finance	0.5
Computer Elective	0.5
Electives	8.0
Total	25 Credits

HIGH SCHOOL SCHEDULING

East Pennsboro Area High School operates on a 2 semester system of scheduling divided into four 9-week marking periods. Students will schedule 7 classes for each semester. Many of our courses are full-year courses, while others are a semester (half-year) courses. During the course of a year, a student can earn 7 credits towards graduation.

Students are encouraged to speak with their School Counselor about their plans of study. It cannot be over emphasized that this process requires **collaboration** of all parties, with the primary responsibility falling on the student to help create the most appropriate schedule.

Students will input their course selection requests online at school during a scheduling window. Following this process, each student's course requests will be posted to the Sapphire Parent Portal for review. Tentative schedules will be run and reviewed for possible conflicts and/or completion.



To support students in completing their course selection process, EPAHS provides several resources and information sessions which, when coupled with advisement from teachers, parents, and School Counselors, ensures all students select the best courses that align with their academic and career interests.

TEACHER RECOMMENDATIONS

Teachers will make recommendations for all courses which are required prior to the student scheduling window. Should a student desire to take a level or course against the recommendation on their Sapphire course selection page, they will need to speak with their teacher if they wish to schedule against the recommendation. Please understand that the teacher recommendations are made in the best academic interest of the student. Students are *strongly* encouraged to follow these recommendations. However, if a student desires a course against the teacher's recommendation and they and their parent sign a Teacher Recommendation Override Form, understand that there will be no assurances that the student will be able to change back to the recommended level.

SCHEDULE CHANGES

Students and parents will be able to view course requests through the Sapphire Community Portal. Requests for course adjustments will be honored through **July 31, 2019**. Please understand that no schedule adjustments will be made after the July deadline, except for level changes, as determined by the teacher, and/or administrative error. No schedule changes will be permitted based on teacher preference. Schedule changes must be requested in person in the high school Counseling Office.

Students scheduled to attend Cumberland-Perry Area Vocational and Technical School (CPAVTS) for the fall of 2019 have until **July 31, 2019** to request to withdraw from CPAVTS, at which point they will be rescheduled for a full day of coursework at East Pennsboro. If they do not withdraw before the deadline, the student **WILL BE REQUIRED** to attend CPAVTS for the school year.

Any Honors or AP courses scheduled for next year **MAY NOT BE DROPPED**, at any time, after the last day of the 2018-2019 school year. Students who sign up for these courses sign a contract committing to the course and are required to complete all summer work. Any courses for which a student and parent sign an override form requesting to schedule a course against the recommendation of their teachers, **MAY NOT BE DROPPED** either.

FAILED COURSES

If a student fails a course required for graduation, the course must be repeated before graduation. The student may repeat the course during the school year, but may not take sequential courses concurrently. (Example: A student cannot schedule to take English III and English IV concurrently.) Therefore, if a student fails a sequential course, it is imperative that the student complete one of the following options for credit recovery (See the Counseling Office for details):

1. Complete a Credit Recovery Program through the Panther Academy CAOLA Software
2. Attend an East Pennsboro Area School District-Approved Summer School

If a student does not make an attempt to recover their missing credits, it may be necessary for that student to return for an additional year of schooling. If a student returns for the fifth year to make up failed courses, that student will attend only those classes. Please understand that if a student retakes a course during the school year, the same teacher may be assigned.

GRADING SYSTEM

All students receive four report cards a year (one every nine weeks), which serve as a tool for communication between the school and the home regarding a student's progress. Report cards are distributed electronically through the Sapphire Community Portal. Report cards can be used by students and parents to make adjustments to academic habits throughout the year. It is highly recommended that students and parents discuss academic progress together and that they contact the school with any questions or concerns.

GRADING SCALE	
GPA is reported on a 100 point scale	
93 –100+	Excellent (A)
85 – 92	Good (B)
77 –84	Average (C)
70 –76	Below Average (D)
Below 70	Failing (F)
I	Incomplete
M	Medical
P	Pass
F	Fail

MARKING PERIOD AND FINAL EXAM PERCENTAGES OF FINAL GRADE			
	Semester 1 Courses	Semester 2 Courses	Full Year Courses
1 MP	40%		20%
2 MP	40%		20%
3 MP		40%	20%
4 MP		40%	20%
Final Exam	20%	20%	20%
Total	100%	100%	100%

All work assigned must be completed. Failure to do so may result in an Incomplete grade, which would require the student to repeat the course to obtain credit. Incomplete grades are also given to students who require additional time to finish work that was missed as a result of an extended medical absence.

Students and parents can also monitor progress by using Sapphire, an online grade book that all teachers at East Pennsboro Area High School use. This can be accessed from any computer and it is highly encouraged that students keep track of their progress week to week. Teachers are required to post any grading updates weekly.

WEIGHTED GRADE POINT AVERAGE (WGPA)

For Honors and Advance Placement courses, students receive an additional weight into their GPA due to the additional rigor these classes require. Weights will be applied at the end of the year in the final weighted GPA. To determine class rank, a weighted grade point average (WGPA) must be calculated. Quality points are used to determine the weight of each course in the overall GPA. Class rank is then calculated from the final weighted GPA. This formula is demonstrated below.

Step 1

Course Grade	x	Credit Value	x	Weight	=	Quality Points
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Step 2

Sum of Quality Points	÷	Sum of Credits Attempted	=	Weighted GPA
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Sample

Course	Course Grade	x	Credit Value	x	Weight	=	Quality Points
English 9 Honors	92	x	1	x	1.1	=	101.2
Algebra I Academic	87	x	1	x	1	=	87
Earth Science	83	x	1	x	1	=	83
American History Honors	95	x	1	x	1.1	=	104.5
Computer Applications I	94	x	0.5	x	1	=	47
Economics Honors	90	x	0.5	x	1.1	=	49.5

Sum of Quality Points	÷	Sum of Credits Attempted	=	Weighted GPA
472.2	÷	5	=	94.44

As students do not earn credit until the completion of a course, official class rank and GPA are not released until the end of each school year.

ATTENDANCE AND DENIAL OF CREDIT

A student will be denied credit for a course, regardless of the grade earned, if s/he accumulates a number of unexcused absences exceeding ten percent (10%) of the total number of meeting days for the course. See the table below:

Course Credit	# of Unexcused Absences
1 Semester A/B (0.25)*	5
1 Semester (0.5)	9
Full Year (1.0)	18

* Applies to health, PE, & drivers education

See Board Policy #204

HONOR ROLL

In order to be recognized for the East Pennsboro Area High School Honor Roll, the following criteria will be used:

First Honors

Minimum 85% in all courses with at least an overall average of 93%.

Second Honors

Minimum of 80% in all courses with at least an overall average of 85%.

Students must be carrying a minimum of 30 periods per 6 day cycle to be eligible for the Honor Roll.

Any course incomplete eliminates a student from consideration for the Honor Roll.

See Board Policy #213

DUAL ENROLLMENT

The Dual Enrollment program, which is established with support from the Pennsylvania Department of Education, allows eligible senior year students to enroll in courses on a local college campus. Students must complete or have scheduled sufficient credits to meet graduation requirements. Applications to the local colleges and universities will be completed through the counseling office with the desired institution. All must be completed according to the institution's guidelines.

College courses taken and successfully completed by the students will satisfy East Pennsboro's graduation credit requirements, but will not be used in the student's grade point average calculation. If a student is interested in participating in this dual enrollment program, they should consult with their School Counselor.

ADVANCED PLACEMENT (AP) COURSES

For students interested in earning college credit while in high school, East Pennsboro currently offers eleven AP courses to prepare students for AP exams, which can earn 3 college credits for successful completion. Students who plan to take any AP courses are advised to check with their potential colleges of choice regarding acceptance of AP exam scores for credit.

AP English Literature and Composition
AP Environmental Science
AP Psychology
AP Economics
AP English Language and Composition
AP European History

AP US Government and Politics
AP Calculus
AP Statistics
AP Art History
AP US History

SENIOR LATE ARRIVAL AND EARLY DISMISSAL

Senior students will be permitted to arrive after the first period class OR leave before the seventh period class under the following criteria for eligibility:

1. Senior students must have earned a place on either the First or Second Honor Roll in the previous marking period.
2. Parents must give written permission.
3. Any senior receiving a failing grade in the previous marking period or having had a disciplinary action during the preceding marking period is not eligible.
4. Seniors must have met all school obligations to be eligible.
5. No student will have more than one period of Late Arrival or Early Dismissal per year.
6. Students must have an acceptable record of school attendance and punctuality.
7. Students must have scored at the proficient level or above on their Keystone Assessments.
8. Transportation to and from school is the responsibility of the student.

Students who are interested in this as an option in their schedule must get a form from the Counseling Office and get signatures from their parents, the school activity officer, and the Assistant Principal. The decision of the Assistant Principal is final in all cases.

If a senior arrives early or stays late into their scheduled Late Arrival or Early Dismissal period, they must be in the library, or under the supervision of a staff member. Students are not allowed to loiter in the parking lot or in any other area of the school.

NCAA INFORMATION FOR STUDENT ATHLETES

The NCAA Eligibility Center certifies the (1) **academic** and (2) **amateur credentials** of all students who want to play sports in an NCAA Division I or II institution as freshmen. In order to practice, play and receive an athletics scholarship, students need to meet certain academic benchmarks. An additional certification process exists to make sure the student is still an amateur, necessary in order for the student to compete.

The following requirements must be met in order for a student to be able to practice, play and receive a scholarship at an NCAA Division I or II college or university. **NOTE: REGULAR/APPLIED COURSES ARE NOT APPROVED COURSES BY THE NCAA. ALL COURSES MUST BE AT THE ACADEMIC LEVEL OR ABOVE.**

- Division I:
1. Graduate from high school;
 2. Complete a minimum of 16 core courses;
 3. Present the required grade-point average (GPA);
 4. Present a qualifying test score on either the ACT or SAT
 5. Complete the amateurism questionnaire and request final amateurism certification.

Division I Core-Course Breakdown (Courses MUST appear on your list of Approved Core Courses)

- 4 years of English
- 3 years of math (Algebra I or higher)
- 2 years of natural or physical science (including one year of a lab science)
- 1 extra year of English, math, or natural or physical science
- 2 years of social science
- 4 years of extra core courses from any category above or world language

- Division II:
1. Graduate from high school;
 2. Complete a minimum of 16 core courses;
 3. Present a minimum 2.000 core-course grade-point average (GPA);
 4. Present a minimum 820 SAT score (critical reading & math only) or 68 sum ACT score qualifying test score on either the ACT or SAT
 5. Complete the amateurism questionnaire and request final amateurism certification.

Division II Core-Course Breakdown (Courses MUST appear on your list of Approved Core Courses)

- 3 years of English
- 2 years of math (Algebra I or higher)
- 2 years of natural or physical science (including one year of a lab science)
- 2 years of social science
- 3 additional years of English, math, or natural or physical science
- 4 years of extra core courses from any category above or world language

NCAA CERTIFICATION PROCESS FOR STUDENTS

1. In your SOPHOMORE year, log onto www.eligibilitycenter.org to register with the NCAA as a student athlete. This site will remind you of important tasks to complete over the course of your high school studies.
2. In your JUNIOR year, register to take the SATs/ACTs and use the NCAA Eligibility Center code “9999” as a score recipient to have your results sent to the NCAA.
3. At the END of your JUNIOR year, send an official transcript to the NCAA Eligibility Center using Parchment.
4. At the END of your SENIOR year, send an official transcript to the NCAA Eligibility Center using Parchment indicating you have graduated from high school successfully.

EPAHS COURSE OF STUDY DESCRIPTIONS

Levels of Course Rigor	-	-	-	13
Applied Engineering and Technology Department			-	14
Business and Computer Information Systems Department			-	18
English Department	-	-	-	23
Family and Consumer Science	-	-	-	29
Health and Physical Education	-	-	-	31
Mathematics Department	-	-	-	34
Science Department	-	-	-	40
Social Studies Department	-	-	-	46
Visual and Performing Arts Department			-	53
World Language Department	-	-	-	59
Special Programs	-	-	-	62

LEVELS OF COURSE RIGOR

Many courses at EPAHS are offered at different levels of rigor and academic challenge. This chart explains only general differences between the different levels offered, as each class within its description will explain the specific expectations for that course.

	Regular/Applied*	Academic	Honors/AP**
Student Responsibility	Students must use class time conscientiously to complete assignments and review <i>under the guidance of their teacher</i> .	Students will hold significant responsibility for their success in this course. <i>Teachers will expect students to see them if they need extra help.</i>	Students will hold primary responsibility for their success in this course. <i>Teachers will present material and facilitate the student's success.</i>
Class Time	Majority of the class will be spent on <i>student-centered work</i> with discussion of the key concepts of content as review.	Class time will be split between <i>lecture and/or discussion</i> and <i>student/group work</i> .	Majority of class time will be spent on <i>lecture and/or discussion</i> of subject matter.
Homework	Will be used occasionally to <i>review concepts</i> introduced and modeled in class.	Will be regularly <i>assigned and modeled in class</i> and used to review concepts introduced in class.	Will be assigned in class and used to <i>introduce, review or extend concepts</i> discussed in class.
Exams	Will cover the <i>fundamentals of course content</i> and cause students to examine several key concepts.	Will cover the <i>details of course content</i> and provide <i>in-depth treatment</i> of course concepts.	Will cover the details of course content and provide in-depth treatment of key concepts using primarily <i>constructed response items</i> .
Coverage of PDE Standards	Course meets the <i>basic requirements</i> of the PDE standards.	Course content is <i>structured around and exceeds</i> the framework provided by the PDE standards.	Course content is geared towards <i>AP or college level</i> .

*Regular/Applied classes DO NOT COUNT for NCAA requirements for potential college athletes.

**Most Honors and AP classes require SUMMER WORK, which will be assigned for completion over the summer prior to the class beginning in the fall. This summer work will count as an important part of your grade in the first marking period.

APPLIED ENGINEERING AND TECHNOLOGY DEPARTMENT

COURSE DESCRIPTIONS

1900 INTRODUCTION TO ENGINEERING AND TECHNOLOGY

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	EIT	9

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course is intended to teach students to apply the skills, concepts, and principles of problem-solving design. Through hands-on projects students will be exposed to a variety of different units. These topics include environmental engineering, 3D modeling/design, structural designing, as well as learning about different modes of transportation and vehicles. Due to the variety of topics offered in this course, Introduction to Technology and Engineering Education will act as a prerequisite course for other Technology and Engineering classes offered to students.

1901 INTRODUCTION TO ENGINEERING DESIGN (Project Lead the Way)

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.0	EIT	9, 10, 11, 12

Prerequisite Recommendation: Algebra I

COURSE DESCRIPTION

The major focus of this course is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.

1902 PRINCIPLES OF ENGINEERING (Project Lead the Way)

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.0	EIT	10, 11, 12

Prerequisite Recommendation: Introduction to Engineering Design

COURSE DESCRIPTION

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strengths of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

1903 CIVIL ENGINEERING AND ARCHITECTURE - HONORS (Project Lead the Way)

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.0	EIT	11, 12

Prerequisite Recommendation: Principles of Engineering

COURSE DESCRIPTION

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software.

1910 FUNDAMENTALS OF MATERIALS AND PROCESSES I

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	EIT	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course provides instruction in design process, understanding project plans and drawings, hand tools, and their methods. It also includes information on basic materials, wood finishes, and power equipment. All students will be required to complete a project designed to incorporate the skills learned in this course. A small fee will be charged to cover the cost of materials.

1911 FUNDAMENTALS OF MATERIALS AND PROCESSES II

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	EIT	9, 10, 11, 12

Prerequisite: Woodworking I

COURSE DESCRIPTION

This course provides instruction on advanced power equipment and their methods. Joinery techniques, fastening methods, understanding project plans and drawings, hand tools, and their methods are discussed. Students will select from several approved projects that are designed to demonstrate mastery of the course objectives while learning the manufacturing process to construct a class project. A small fee will be charged to cover the cost of materials.

1915 MATERIALS PROCESSING AND MANUFACTURING

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	EIT	10, 11, 12

Prerequisite: Introduction to Technology Education AND Woodworking I

COURSE DESCRIPTION

This course provides instruction on advanced power equipment and their methods. Joinery techniques, fastening methods, understanding project plans and drawings, hand tools, and their methods are discussed. Students will select from several approved projects that are designed to demonstrate mastery of the course objectives while learning the manufacturing process to construct a class project. A small fee will be charged to cover the cost of materials.

1920 COMPUTER AIDED DESIGN I

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	EIT	9, 10, 11, 12

Prerequisite Recommendation: Introduction To Engineering And Technology

COURSE DESCRIPTION

This course is intended for students with no prior computer experience. This is an introductory CAD course utilizing the CAD software programs, AutoCAD, SolidWorks and/or Inventor. Students will learn the basics of CAD geometry creation and manipulation using a variety of computer command inputs including keyboard shortcuts, toolbox icons, and mouse menu selection. Content will enable students to make the transition into the use of CAD software by creating increasingly sophisticated drawings. Students will earn the basic concepts of full size and scale drawings by making two and three-dimensional drawings.

1921 COMPUTER AIDED DESIGN II

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	EIT	10, 11, 12

Prerequisite Recommendation: Computer Aided Design (CAD)

COURSE DESCRIPTION

Students will utilize advanced features of Autodesk's Inventor to learn the fundamentals of parametric modeling through the use of geometric constraints and relationships. Students will also become familiar with tools and commands to construct complex features in models. Students will also learn how to combine all parts into assemblies and run a motion analysis of their assemblies. Students will also learn how to showcase projects by creating 3D animations of their models. Students will also be introduced to Autodesk 3ds Max which is a popular 3D modeling, animation, rendering, and compositing software widely used by game developers and graphic designers in the film and television industry.

1925 ARCHITECTURAL DRAWING AND DESIGN

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	EIT	10, 11, 12

Prerequisite Recommendation: Introduction To Engineering And Technology

Course Description:

This is an introduction to residential and light commercial building construction and design. Students will learn basic sketching, mechanical drafting skills with an emphasis on computer aided drafting utilizing Autodesk's Building Design Suite. In this class, students will design a structure relevant to today's modern architecture. Students will experience and solve many problems in designing of building structures with regards to environment and community impact and limitations from town planning, urban design and landscape architecture to furniture and objects.

1930 COMPUTER GRAPHIC DESIGN

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, EIT	9, 10, 11, 12

Prerequisite Recommendation: Introduction To Engineering And Technology

COURSE DESCRIPTION

This class will focus on developing students' computer skills related to basic design concepts. Students will learn and apply fundamentals of the software package Adobe Creative Suite (InDesign, Photoshop, and Illustrator), web design, and image editing, drawing and graphic animation. Projects will coordinate technical skills with organization, management, communication, ethics and teamwork. Topics will include correcting and enhancing digital photographs, advanced layering, masks and channels, vector drawing techniques, preparing files for the web and producing and printing consistent color with Adobe Photoshop, creating and editing shapes, transforming objects, drawing, coloring and painting, working with type and layers and applying effects with Adobe Illustrator. Students will also explore Animation software in many of its aspects from the very simplest animations to some fairly complex programming projects. Students will create examples and create projects ranging from advertisements to simple game like animations.

1950 INTRODUCTION TO GEOGRAPHIC INFORMATION SCIENCE (GIS)

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	EIT, SHS	9, 10, 11, 12

Prerequisite Recommendation: Introduction To Engineering And Technology

Course Description:

Geographic Information Science (GIS) is the science of linking data to locations to explore spatial relationships. GIS is way more than just maps. Students will use GIS software to evaluate the relationship between different spatial information. Types of projects can include identifying the best location for new development, locating pollution point sources, finding the easiest way to get from point A to point B, and developing a better understanding of the way the world interacts. This course will teach basic GIS concepts such as spatial data sources and structures, projections and coordinate systems, data editing and creation, and geospatial analysis.

1960 VIDEO GAME DESIGN

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	BCS, EIT	9, 10, 11, 12

Prerequisite Recommendation: Introduction To Engineering And Technology

Course Description:

This course introduces fundamental video game development concepts and techniques prevalent in video game industry. The students will have an opportunity to understand these techniques and learn how they are applied during the production of a video game. The areas covered include game design, game production, game programming, game art and animation. The students will have hands on experience by writing 2D game prototypes belonging to different genres and evaluating the techniques that they learn in class. This course is intended to serve as an introduction into the game production cycle. The course breaks down the complex process of game creation into a simple step by step program. No programming knowledge is required for the course. However, some degree of computer knowledge is necessary. The course will detail the design and production methodologies used for creating games in various genres. Students will apply the skills taught during class in the various assignments. The assignments would lead into each other and the final project will be an educational game created by the student.

BUSINESS AND COMPUTER INFORMATION SYSTEMS DEPARTMENT

BUSINESS COURSE DESCRIPTIONS

1610 ECONOMICS AND PERSONAL FINANCE

Credit	Weight	Requirement	Grade Level(s)
0.5 - Semester	1.0	ALL PATHWAYS	12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course will focus on the fundamental principles upon which our capitalist system is based. Economic concepts dealing with the global economic structure and common economic problems will be examined. The majority of the course will focus on the role of the consumer in today's economic environment. Emphasis on budget construction, establishing credit, preparing tax forms, the stock market and a variety of other investment strategies, finding insurance, and financing vehicles while maintaining accurate banking records. Students will be responsible for meeting the requirements outlined in "Project Independence" and completing all work in class.

1611 ECONOMICS AND PERSONAL FINANCE ACADEMIC

Credit	Weight	Requirement	Grade Level(s)
0.5 - Semester	1.0	ALL PATHWAYS	12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course will focus on the fundamental principles upon which our capitalist system is based. Economic concepts dealing with supply and demand, the global economic structure, and common economic problems will be examined. In addition, the role of the consumer will be studied with emphasis on budget construction, credit and insurance. Students will compare the different types of businesses and determine the advantages and disadvantages of each. The stock market and other investments will be covered along with calculating taxes, completing 1040EZs, and learning the banking system. Students will be responsible for meeting the requirements outlined in "Project Independence."

1612 ECONOMICS AND PERSONAL FINANCE HONORS

Credit	Weight	Requirement	Grade Level(s)
0.5 - Semester	1.1	ALL PATHWAYS	12

Prerequisite Recommendation: Approval of the instructor, 85% in Academic or Honors History 11
Required Summer Work

COURSE DESCRIPTION

This course combines basic economic and personal finance concepts into one semester. Economic concepts dealing with supply and demand, the global economic structure, common economic problems, and maintaining a balanced economy will be covered. In addition, the role of the consumer will be examined with emphasis on budget construction, decision-making, and the relationship between business, consumers, and labor. The stock market and other investments will be covered in addition to taxes, completing individual returns, and the banking system. Students will be responsible for meeting the requirement outlined in "Project Independence", and demonstrate the advanced writing skills necessary for the interpretation and analysis of concepts presented in this class. Students will be required to complete summer work which will entail either reading an approved business/economics book or alternative literature.

1600 CAREER EXPLORATION

Credit	Weight	Requirement	Grade Level(s)
0.5 - Semester	1.0	ALL PATHWAYS	10, 11

Prerequisite Recommendation: None

COURSE DESCRIPTION

Students will begin the process of analyzing all of the elements of their personality, abilities, aptitudes, etc. and connecting them with possible careers. While in the class, students will also address topics such as plan for success, influences on career choices, goals setting, career preparation options, as well as planning for the next step. Additionally students will work with a wide variety of online resources to help them with personalized future career and college planning information.

1620 ACCOUNTING I

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.0	BCS	10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

Anyone who has future plans of majoring in Business in college should make sure they take Accounting I. In college if you are majoring in Accounting, Business Administration, Marketing, Economics, or any other business related field, you will be required to take Accounting classes. It is to your advantage to learn Accounting in high school where the pace is slower and you will learn the fundamentals first. You will learn journals, ledgers, reports, and other important basic knowledge that will help you be successful in a future business career. A practice set, projects and computer experience will simulate work commonly found in Accounting. If you are planning on going out into the work force directly from high school, Accounting will be a great benefit to you. Students will also find personal application for their own record keeping.

1621 ACCELERATED ACCOUNTING

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	BCS	11, 12

Prerequisite Recommendation: None

Course Description

This course is for anyone who's future plans are to major in a business field in college but is looking for a one semester course. If you are majoring in Accounting, Business Administration, Marketing, Economics, or any other Business related field you will be required at college to take an Accounting class. The difference between this Accelerated Accounting and Accounting I is Accelerated Accounting will only be one semester. This class will go at a much faster pace and will not delve into the chapters as deeply as the Accounting I class. This class will still cover journals, ledgers, reports, and other important basic knowledge of the Accounting cycle. This class is for anyone who needs to get a background in accounting but only has one semester available.

1625 FINANCE & INVESTMENTS

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	BCS	10, 11, 12

Prerequisite Recommendation: Algebra II

Course Description

How can you turn \$10 into a million dollars? Would you rather have \$1000 today or \$1100 a year from now? Is Google a "good" company to invest in? These questions, and many others, are answered through the study of finance. This introductory course examines financial markets and investment analysis from a consumer perspective. Topics covered may include: present discounted value, stock markets, bond valuations, mutual funds, futures, options, derivatives, real estate, and portfolio construction. The final project will involve students creating an investment strategy for client.

1630 MARKETING

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, BCS, HS	11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

Students will examine many aspects of Marketing and learn how marketing is a vital component in the success of any business venture. Topics covered include: promotion, advertising media, print advertisements, visual merchandising and display, publicity and public relations, marketing research, and careers in marketing. Additionally, the students will do a weekly case study in all aspects of marketing and will take on community marketing projects as they become available. Past projects have included marketing for the spring musical, Americhoice, and fundraising for the LSS classroom.

1640 BUSINESS LAW

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	BCS, HS	11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

Students can apply this course either on a personal or on a business level to enhance other business courses. This one-semester course provides for topics in consumer law, as they apply to employment, property, wills and trusts, and sole proprietorships. Students debate current legal issues, study cases, and participate in a mock trial.

1650 ENTREPRENEURSHIP AND INNOVATION

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	BCS	10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

Entrepreneurship is an elective class that walks students through the process of starting a business and gives them information about current business trends. To start the class, we discuss the characteristics that make a good entrepreneur and practice communication and math skills needed to be successful. Students will explore the various avenues for acquiring a business and generating their own ideas. Lastly, students develop a business plan for a business of their choice. Topics include the importance of a business plan, what goes into a business plan, financing and marketing your business, hiring employees and meeting market needs. Everything from creating a floor plan to advertising is included in the business plan. Students will also participate in a business simulation program where they control all aspects of running a company.

1613 AP ECONOMICS*

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.1	BCS, HS	11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

Emphasis of this course will be placed on test preparation for the AP Macroeconomics and AP Microeconomics exams. Students will practice higher-level problem-solving and explore topics such as basic economic concepts, nature and functions of product markets, factor markets, market failure and the role of government, measurements of economic performance, national income and price determination, financial sector, stabilization policies, and the open economy. Students will be provided an opportunity to take practice exams to measure individual readiness for the exam.

***Successful completion of this course satisfies the Economics/Personal Finance graduation requirement**

BUSINESS AND COMPUTER INFORMATION SYSTEMS DEPARTMENT

COMPUTER COURSE DESCRIPTIONS

1665 MICROSOFT OFFICE APPLICATIONS I

Credit	Weight	Computer	Grade Level(s)
0.5 - Semester	1.0	ALL PATHWAYS	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

The concepts taught in this course will cover the Microsoft Office Suite, a widely used software package across all careers. Students will become familiar with using basic techniques within the following Microsoft Office programs: Word, Excel, and PowerPoint. Also, students will learn how to effectively search the Internet and learn safety tips to apply to their daily life. Students will also practice their keyboarding skills to become experts at the computer. All the new concepts and techniques will be introduced and practiced with hands on examples and projects. After the completion of this course, students will have the ability to apply concepts learned within their professional careers. Also, they will have computer skills to add to their resumes which mostly all professions are requiring.

1666 MICROSOFT APPLICATIONS II

Credit	Weight	Computer	Grade Level(s)
0.5 - Semester	1.0	ALL PATHWAYS	9, 10, 11, 12

Prerequisite Recommendation: Computer Applications I

COURSE DESCRIPTION

The concepts taught in this course will expand the students' existing knowledge, from Computer Applications I, of the Microsoft Office Suite. Students will become familiar using advanced skills such as using the mail-merge wizard, generating templates, using presentation action buttons, creating a self-running presentation containing animation, and working with financial functions, within the Microsoft Office Suite. Students will acquaint themselves with the proper procedures to create and enhance documents, presentations, and worksheets suitable for coursework, professional purposes, and personal use. This course offers an exercise-oriented approach that allows students to learn by doing. After the completion of this course, students will have the ability to apply concepts learned within their professional careers. Also, they will have computer skills to add to their resumes which mostly all professions are requiring.

1662 MICROSOFT OFFICE APPLICATIONS III

Credit	Weight	Computer	Grade Level(s)
0.5 - Semester	1.0	ALL PATHWAYS	10, 11, 12

Prerequisite Recommendation: Computer Applications II

COURSE DESCRIPTION

The concepts taught in this course will expand beyond the advanced Microsoft Office skills taught within the Computer Applications II course. Students will become familiar with using post-advanced skills such as creating a blog post, using Microsoft Graph, working with master documents, creating a template for an online form, adding digital signatures, using Macros, using slide masters, and creating a photo album, within the Microsoft Office Suite. Similar to Computer Applications II, students will acquaint themselves with the proper procedures to create and enhance documents, presentations, and worksheets suitable for coursework, professional purposes, and personal use. This course offers an exercise-oriented approach that allows students to learn by doing. After the completion of the course, students will have the ability to apply concepts learned within their professional careers. Also, they will have computer skills to add to their resumes which mostly all professions are requiring.

1664 DESKTOP PUBLISHING

Credit	Weight	Computer	Grade Level(s)
0.5 - Semester	1.0	AC, BCS	9, 10, 11, 12

Prerequisite Recommendation: Computer Applications I

COURSE DESCRIPTION

The concepts taught in this course will help develop a student's understanding of commonly used desktop publishing software, including Microsoft Word and Adobe InDesign, to create attractive publications. The concepts studied are important because today's business use many different software packages to create their own publications, which help in business promotion. Students will take part in a real world publishing role by designing brochures, newsletters, CD covers, T-shirt designs, flyers, concert tickets, and more within a "Concert Tour" simulation. Students will create their own music bands and design the necessary publications to get the word out about his or her up-and-coming music group. Successful completion of this course will ensure that students can utilize software effectively, thus giving them the opportunity to enhance their professional resumes.

1670 WEB PAGE DESIGN AND DEVELOPMENT I

Credit	Weight	Computer	Grade Level(s)
0.5 - Semester	1.0	AC, BCS	10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

The concepts taught within this course will review basic Internet knowledge along with web page development. HTML5, XHTML, CSS, and Adobe Dreamweaver will be taught to students in order to understand how web pages are created. The students will be creating from scratch their own web pages using coding concepts discussed throughout the course. Overall, the students will be gaining a real life view of what the web designing profession entails. After the completion of this course, students will have several technological experiences to add to their professional resumes.

1671 WEB PAGE DESIGN AND DEVELOPMENT II

Credit	Weight	Computer	Grade Level(s)
0.5 - Semester	1.0	AC, BCS	10, 11, 12

Prerequisite Recommendation: Web Page Design and Development

COURSE DESCRIPTION

This is a continuation of the Web Page Design and Development course. The same coding languages, HTML5, XHTML, CSS3, and the software program, Adobe Dreamweaver, will be used to create web pages and web sites. However, more advanced coding techniques and web page elements will be taught. Also, the addition of using multimedia content within a web site will be discussed. Overall, the students will be gaining a real life view of what the web designing profession entails. After the completion of this course, students will have additional technological skills to add to their resumes.

1680 COMPUTER SCIENCE (Project Lead the Way)

Credit	Weight	Computer	Grade Level(s)
1 - Full-year	1.0	BCS, TEE	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

In this introductory course, students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites, and learn how to make computers work together to put their design into practice. They'll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.

ENGLISH DEPARTMENT

COURSE DESCRIPTIONS

1100 ENGLISH I

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	9

Prerequisite Recommendation: None

COURSE DESCRIPTION

With teacher support, students will read, analyze, cite evidence from, and respond to texts and multimedia sources. Independent thinking and critical analysis provide a framework for the exploration of course content. Students will engage in thoughtful discussion and debate with peers as they formulate and defend their own well-informed perspectives while also covering PA standards for reading, writing, language, speaking, and listening. Students will read a minimum of two novels per year, both in and outside of class; teacher support is provided while working on novels.

1101 ENGLISH I ACADEMIC

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	9

Prerequisite Recommendation: None

COURSE DESCRIPTION

Students will read, analyze, cite evidence from, and respond to texts and multimedia sources. Independent thinking and critical analysis provide a framework for the exploration of course content. Students will engage in thoughtful discussion and debate with peers as they formulate and defend their own well-informed perspectives while also covering PA standards for reading, writing, language, speaking, and listening. This course includes independent reading of a minimum of 2 novels per year; class discussions support and enhance out-of-class reading.

1102 ENGLISH I HONORS

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	9

Prerequisite Recommendation: Teacher approval required, 85% average in 8th grade Language Arts
Summer work required (Novels; all assignments are due the first week of school)

COURSE DESCRIPTION

This is a Common Core aligned course. It focuses on the standards tested in the Keystone Exam. Students will analyze text, cite evidence, and respond critically about their learning. They'll take ownership through goal setting, reflection, independent text selection, and activities that allow them to collaborate with their peers. Each unit of study includes selections of different literary genres including multimedia all related to relevant and meaningful essential questions. They will engage in activities that inspire thoughtful discussion and debate with their peers, which allow them to formulate and defend their own perspectives. Vocabulary expansion as well as grammar and mechanics study are also a focus of this course, which is recommended for students, who desire an extra challenge in English. This course includes independent reading of a minimum of 2 novels per year; class discussions support and enhance out-of-class reading.

1110 ENGLISH II

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	10

Prerequisite Recommendation: English I

COURSE DESCRIPTION

Students study, analyze, and evaluate the elements of literature through various genres, with an emphasis on nonfiction. Students also study elements of fiction through the study of at least one novel. Teachers may assign independent reading at their discretion. Teachers assess student writing for focus, content, mechanics, and organization. Public speaking and listening skills are taught in conjunction with reading and writing instruction. **The state-mandated Keystone Literature Exam will be taken at the completion of the course.**

1111 ENGLISH II ACADEMIC

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	10

Prerequisite Recommendation: English I

COURSE DESCRIPTION

This course emphasizes the study, analysis, and evaluation of literary elements in various genres. Students explore short stories, drama, the novel, poetry, and nonfiction. Teachers may incorporate independent reading as well. Course writing develops techniques of focus, content, organization, style, and conventions. Students use both textual evidence and research to support their claims. Speaking and listening skills accompany instruction in reading and writing. **The state-mandated Keystone Literature Exam will be taken at the completion of the course.**

1112 ENGLISH II HONORS

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	10

Prerequisite Recommendation: 85% in English I and/or Teacher recommendation
Summer work required (reading and written assignments including one novel and the research and study of the elements of fiction: symbols, setting, point of view, and characterization)

COURSE DESCRIPTION

This course emphasizes the study, analysis, and evaluation of literary structures, devices, and genres. Students examine plays, poetry, short stories, and novels. Additionally, students display their grasp of course content through various media such as public speaking, formal essays, in-depth literary analysis, and creative writing. Reviews of identifying context clues and grammar are added. Active participation, cooperative learning, and independent study are all requisite parts of the honors level course. **The state-mandated Keystone Literature Exam will be taken at the completion of the course.**

1120 ENGLISH III

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	11

Prerequisite Recommendation: English II

COURSE DESCRIPTION

This course emphasizes a selection of American literature which focuses on American culture, past and present, and its relevance to students' heritage and to issues of significance in contemporary society. Reading, thinking, speaking and writing are integral, with practical application of composition skills stressed. In addition, vocabulary expansion and deducing meaning of unfamiliar words in context is also an important component of the course. Students will also be exposed to and assessed upon a research report and the skills necessary to complete it.

1121 ENGLISH III ACADEMIC

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	11

Prerequisite Recommendation: English II

COURSE DESCRIPTION

This course presents a blend of British and American literature emphasizing the connections among historical, cultural and literary period with an added study of how literary devices and stylistic techniques complement the content and enhance the meaning of the literary selections. Additional components of the course focus on the acquisition and/or refinement of formal writing skills including composing an effective thesis; offering quality support and seamlessly incorporated quotes; organizing ideas clearly; and implementing mature and varied diction and syntax. Accurate documentation of sources is a key to the successful completion of the required research paper.

1122 AP ENGLISH LANGUAGE AND COMPOSITION

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	11

Prerequisite Recommendation: 85% in English II and/or Teacher recommendation
Summer work required (writing a formal analysis essay, which is due in the middle of July; reading provided selections [typically thematically-linked nonfiction works or a book] for the first day of school; and responding to associated guided reading questions, also due on the first day of school)

COURSE DESCRIPTION

This course emphasizes a study of nonfiction prose written in a variety of time periods, disciplines, and rhetorical contexts. The aim is to train students to be mature readers and writers who comprehend complex texts and write competently in college courses. Not only do students analyze the rhetorical techniques of famous writers, but they integrate such devices into their own writing. Ultimately, students write expository, narrative, argumentative, and synthesis essays both in and out of class that demonstrate attention to nuances of meaning and style.

At the completion of this course, students are strongly encouraged to take an **AP Language and Composition Exam** for possible college credit. The content of the course and the focus of instruction is geared toward College Board and AP curriculum expectations.

1130 ENGLISH IV

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	12

Prerequisite Recommendation: English III

COURSE DESCRIPTION

This course is designed to give students a general exposure to British literature, both past and present. The course emphasizes fundamental composition skills, presentation skills, interpretation skills, and standard usage. Written and spoken English is studied with an emphasis on practical uses in the life of the student after graduation from high school. Students will engage in reading at least one novel and will perform various assessments, such as written tests, speeches, presentations, and culminating writing assignments. Students are also required to present both formal and informal speeches and to participate in an interview workshop that requires an updated resume.

1131 ENGLISH IV ACADEMIC

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	12

Prerequisite Recommendation: English III

COURSE DESCRIPTION

This course acquaints students with a variety of British literature – prose, poetry, and drama, and nonfiction- historical and contemporary. The goal is to increase independent reading comprehension skills and writing skills. Students will read and analyze selections, participate in independent work, class discussion and group presentations, and write expository, persuasive, research, and creative essays. Students are also required to present both formal and informal speeches, and to participate in an interview workshop that requires an updated resume.

1133 AP ENGLISH LITERATURE AND COMPOSITION

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	12

Prerequisite Recommendation: Teacher approval required, 85% in previous English courses
Summer work required (read two novels, complete reading-guide packets - due the first day of school for the fall semester. Discussion, Projects, Tests and Essays will be based on the summer readings during the first month of school)

COURSE DESCRIPTION

This course emphasizes an in-depth study of literature using critical-thinking skills. A variety of fiction, poetry, and essays are analyzed using a seminar format. Reading assignments, in-class writing assignments, and out-of-class writing assignments are required on a regular basis. A Literary Research Project and informative speech are required. Students must update their resumes and participate in an interview workshop.

Students are strongly encouraged to take an **AP Literature and Composition Exam** for possible college credit. The content of the course and the focus of instruction will be geared toward College Board and AP curriculum expectations; this includes practice with Timed Essays and Multiple Choice questions based on the AP Literature Exam.

1140 CREATIVE WRITING

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC	11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course is designed for students who enjoy writing and who want to augment their writing experiences. Both poetry and prose are included with a strong emphasis on publication.

1142 MYTHOLOGY

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course is designed to give the student an overview of myths and legends found in Western Culture. Greek and Roman myths are the primary areas of study. The influence of myths on literature, art, music, and modern culture are explored. A unit is devoted to the study of Homer's *Iliad* and *The Odyssey*. Students will write creative, informative, and persuasive pieces to supplement their understanding of the myths. Student projects are an integral part of this course.

1144 HUMANITIES

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC	11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

Focusing on western civilizations, this course examines humans' creative processes. Classwork includes exploring through print, video, and audio, the art, history and culture of each period including painting, sculpture, architecture, philosophy, music, dance, theatre, and literature, and then analyzing the elements of each through writing, discussion, and creative projects.

1146 JOURNALISM and PUBLICATIONS (FULL YEAR)

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.0	AC	10, 11, 12

1147 JOURNALISM and PUBLICATIONS (SEMESTER)

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC	10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

Students will study and apply the communication, organizational, marketing, and technological skills necessary to produce an exemplary yearbook, newspaper, and literary magazine. An emphasis is placed on editing skills and on attention to detail required for publishing quality works. Students who desire to be publications editors must take this course. Class size limited; upperclassmen will be given priority.

1065 SAT PREPARATION

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	ALL PATHWAYS	10, 11, (12)

Prerequisite Recommendation: None

COURSE DESCRIPTION

College bound students electing this course concentrate on preparation for the mathematics and verbal sections of the SAT. Instruction and practice coincide with the contents of the standardized test. The verbal section focuses on vocabulary recognition, reading comprehension, accurate grammar and usage, and effective essay composition, while the mathematics section teaches students to select tools and computational strategies to investigate mathematical ideas and to solve problems and make connections among mathematical concepts and procedures, and relate mathematical ideas to situations or phenomena drawn from other contexts. Students complete activities regarding declaring a major, choosing a career, and selecting a college. This course is recommended to be taken in 10th or 11th grade due to typical SAT testing timelines.

1180 KEYSTONE LITERATURE

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0		

Prerequisite Recommendation: Administrative Placement

COURSE DESCRIPTION

This course is designed to provide supplemental instruction to students who scored Below Basic or Basic on the Keystone Literature Exam in preparation for a retest. Through the use of direct instruction, independent completion of personalized on-line coursework, and guided practice on vocabulary, literary practice, informational text practice, and open-ended writing strategies students will be able to increase their reading skills necessary for passing the Keystone Literature retest. Remediation is centered on the PA Core Standards, Keystone Exam Literature Eligible Content and Released Items, and the Keystone Exam Literature Glossary to the Assessment Anchors.

1190 ENGLISH A LS

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.0		9, 10, 11, 12

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

The course will use individualized strategies designed to meet the goals of individual learners. In addition, with teacher support, students will read, analyze, cite evidence from, and respond to texts and multiple types of sources. Independent thinking and critical analysis provide a framework for the exploration of course content. Students will engage in thoughtful discussion and debate with peers as they formulate and defend their own well-informed perspectives while also covering PA standards for reading, writing, language, speaking, and listening.

1191 ENGLISH B LS

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.0		9, 10, 11, 12

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

The course will use individualized strategies designed to meet the goals of individual learners. Students study, analyze, and evaluate the elements of literature through various genres. In addition, students will practice and improve their non-fiction reading skills through the study of newspaper articles, content-area texts, magazine articles, and other non-fiction writing. Students will be assigned independent reading at their functional level. Teachers assess student writing for focus, content, mechanics, and organization. Public speaking and listening skills are taught in conjunction with reading and writing instruction. **The state-mandated Keystone Literature Exam will be taken at the completion of the course.**

1192 ENGLISH C LS

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.0		9, 10, 11, 12

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

The course will use individualized strategies designed to meet the goals of individual learners. In addition, with teacher support, students will read, analyze, cite evidence from, and respond to texts and multiple types of sources. Students will practice and improve their non-fiction reading skills through the study of newspaper articles, content-area texts, magazine articles, and other non-fiction writing. Students will be assigned independent reading at their functional level. Practical writing and speaking skills will be emphasized in order to meet the post-high school needs of students.

1193 ENGLISH D LS

Credit	Weight	English	Grade Level(s)
1.0 – Full Year	1.0		9, 10, 11, 12

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

This course is designed to meet the individualized needs of students with Individualized Educational Plans. Written and spoken English is studied with an emphasis on practical uses in the life of the student after graduation from high school. In addition, with teacher support, students will read, analyze, cite evidence from, and respond to multiple types of fiction and non-fiction readings. Students will practice and improve their non-fiction reading skills through the study of newspaper articles, content-area texts, magazine articles, and other non-fiction writing. Students will also participate in an interview workshop that requires an updated resume.

FAMILY AND CONSUMER SCIENCE DEPARTMENT

COURSE DESCRIPTIONS

1970 INTRO TO FAMILY & CONSUMER SCIENCES

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	HS, SHS	9

Prerequisite Recommendation: None

COURSE DESCRIPTION

Course content includes an overview of many topics that influence life: how the psychology behind advertising/marketing influences our buying choices, how eating disorders develop and are treated, how to fix and create garments using the hand-sewing technique, basic cooking and safe food handling skills, human development over the lifespan, parenting philosophies, and successful relationship theories. Students will be required to complete two research projects that are accompanied by presentations, as well as several hands-on projects. This class will give students an opportunity to learn and try many subjects that they encounter in everyday life.

1980 NUTRITION & CULINARY ARTS

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	HS, SHS	9, 10, 11, 12

Prerequisite Recommendation: Intro to Family & Consumer Sciences

COURSE DESCRIPTION

Course content includes units on daily nutritional requirements, selection of food, preparation techniques, food sanitation, social skills and time management. Students will be required to complete a research project about the modern food industry, conduct a live food demo, and complete various foods labs.

1981 BREADS, PASTRIES, AND FOOD SCIENCE

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	HS, SHS	10, 11, 12

Prerequisite Recommendation: Nutrition & Culinary Arts (formerly Food Science & Nutrition)

COURSE DESCRIPTION

This course will explore the basic ingredients and preparation techniques used in the making of bread, pastry, and cake products, as well as the physical and molecular changes from preparation and serving. Emphasis will be placed on breads, rolls, doughs, batters, frostings, and cakes.

1985 FASHION DESIGN

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC	9, 10, 11, 12

Prerequisite Recommendation: Intro to Family and Consumer Sciences

COURSE DESCRIPTION

This course is designed to meet students at whatever his/her level of sewing currently is. For students with little to no experience, we will start with basic sewing projects. Those with more experience will be able to start on more advanced projects. This course is designed as a studio art class, where students work on projects throughout the semester. Materials for some of the personal projects will be supplied by the student.

1990 RELATIONSHIPS AND FAMILY LIVING

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	HS	11, 12

Prerequisite Recommendation: Intro to Family and Consumer Sciences

COURSE DESCRIPTION

This course studies all relationships, including those found in the personal and professional life. Together we will look at research and leading experts' findings on what makes successful relationships. Some units included are: dating, engagement, marriage adjustment, budgeting, team dynamics, domestic abuse, conflict resolution, commitment, team work, communication, expectations, and issues that influence relationships to be stronger.

HEALTH AND PHYSICAL EDUCATION

COURSE DESCRIPTIONS

1700 HEALTH 9 / 1701 PHYSICAL EDUCATION 9 - BOYS

1702 HEALTH 9 / 1703 PHYSICAL EDUCATION 9 - GIRLS

Credit	Weight	PE/Health	Grade Level(s)
0.5 – Semester A/B	1.0	ALL PATWAYS	9

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course combines classroom work with physical, mental and social enhancement. Students will participate in team activities, as well as lifetime activities while in physical education class. Activities will include but limited to volleyball, badminton, dance, and wellness. Classroom activities will focus on subjects such as Mental Health, Stress Management, Decision-Making, Substances Abuse, Male/Female Reproduction and Contraception. Students will be expected to cooperate with peers in small group settings, complete class room objectives with supervision, and work independently.

715 DRIVERS EDUCATION / 711 PHYSICAL EDUCATION 10 - BOYS

716 DRIVERS EDUCATION / 713 PHYSICAL EDUCATION 10 - GIRLS

Credit	Weight	PE/Drivers Ed	Grade Level(s)
0.5 – Semester A/B	1.0	ALL PATWAYS	10

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course combines classroom work with physical, mental and social enhancement. Students will participate in team activities, as well as lifetime activities while in physical education class. Activities include but are not limited to creative dance, tennis, hockey, and introduction to weight room. First Aid, CPR, and Nutrition will be discussed within the physical education. This driver's education course will provide the fundamental theory for all driving requirements established by the Pennsylvania Department of Transportation. Not only will students be provided with all of the necessary information and paperwork to pass their permit test but they will also learn about purchasing a vehicle, interpreting maps, technological use in vehicles, Pennsylvania driving laws, general rules of the road, as well as the location and function of vehicle controls. Students will have the opportunity to earn their 30 hours of in-classroom instructional hours deemed necessary by the state.

1720 LIVING SKILLS 11 / 1721 PHYSICAL EDUCATION 11 - BOYS

1722 LIVING SKILLS 11 / 1723 PHYSICAL EDUCATION 11 - GIRLS

Credit	Weight	PE/Health	Grade Level(s)
0.5 – Semester A/B	1.0	ALL PATWAYS	11

Prerequisite Recommendation: None

COURSE DESCRIPTION

The physical education class is designed to help students develop physically, mentally, and socially while participating in selected lifetime activities. Lifetime activities include but are not limited to lacrosse, tennis, nitro ball, competitive badminton, and folk and social dance. Living Skills 11 will examine values clarification, decision-making skills, coping techniques, problem-solving techniques, and communication skills. Relationships and abstinence will be discussed and examined. Pregnancy, labor, birth, delivery and parenting will be introduced. After a unit on relationship violence, this course will offer a self-defense presentation which will enable the students to learn basic defense skills.

1730 LIVING SKILLS 12/ 1731 PHYSICAL EDUCATION 12 - BOYS**1732 LIVING SKILLS 12/ 1733 PHYSICAL EDUCATION 12 - GIRLS**

Credit	Weight	PE/Health	Grade Level(s)
0.5 – Semester	1.0	ALL PATWAYS	12

Prerequisite Recommendation: None

COURSE DESCRIPTION

The physical education class is designed to help students develop physically, mentally, and socially while participating in selected lifetime activities. Activities include but are not limited to golf, cycling, weight room, and senior creative dance. Students will need to work independently and be responsibly to adhere to daily objectives. Living Skills 12 will examine tolerance and diversity, coping and bereavement, extended life care and planning, as well as stereotypes and discrimination. Students will be required to give presentations, work independently, use technology, participate in large and small group discussions.

1740 STRENGTH TRAINING AND CONDITIONING

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	HS, SHS	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course is designed for students to develop an understanding of the skills, and knowledge that relates to enhancing personal fitness goals. Students will be expected to engage in fitness related activities. Workouts will be completed by participants in this course depending on their need for general fitness or athletic competition. Athletes will work on programs designed specifically for preseason, in season or postseason needs. Students will use goal setting, plan and design, evaluation, and personal motivation. General fitness students will work on programs to improve their overall fitness levels. Students must be highly motivated and be able to independently work through rigorous workouts.

1745 LIFETIME FITNESS

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	SHS	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course enables students to understand both the mental and physical benefits of a healthy lifestyle. Personal fitness, nutrition, flexibility, body types, and body composition will all be discussed. Students will also learn about general training principles, muscular and cardiovascular systems, as well as diseases typically associated with lack of a healthy lifestyle. Students will begin to develop personalized goals for a healthier lifestyle, along with gaining motivation to maintain that lifestyle. Fitness tests will be done at the beginning and end of the semester to gauge the student's progress throughout the course. Course includes rigorous activities in the gymnasium, as well as detailed academic material in the classroom.

1747 SPORTS LEADERSHIP

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	BCS, HS, SHS	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

In this course, students will learn about and reflect upon effective leadership qualities in future careers using sports as a mean for discussion. Topics include coaching/leadership, game creation, sports marketing, sport psychology, team-building, officiating, leadership history, and a final project which encourages students to research a field of study within the field of athletics. This course requires participation in classroom projects, in-class discussion, presentations, and gymnasium participation.

1790 ADAPTIVE PHYSICAL EDUCATION/HEALTH

Credit	Weight	PE/Health	Grade Level(s)
0.5 – Semester	1.0	ALL PATWAYS	9, 10, 11, 12

Prerequisite Recommendation: Teacher Recommendation

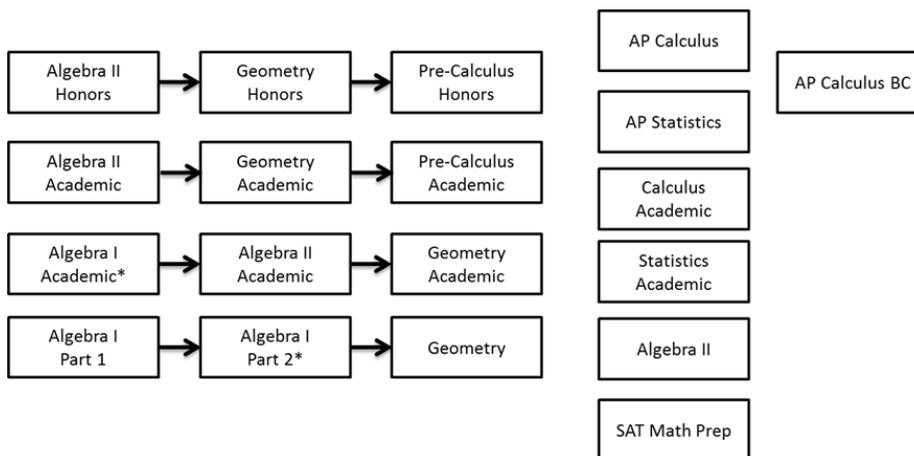
COURSE DESCRIPTION

This course enables students to have health and physical education classes in a more controlled setting that works with their physical strengths. The curriculum will follow the same alignment as the course it is linked along with. Accommodations will be made to ensure safety and success. Activities will be selected based on the strengths and challenges of the students. Students will work with an aide within a large group setting.

MATHEMATICS DEPARTMENT

COURSE DESCRIPTIONS

Sequence of EPAHS Mathematics Courses



1400A ALGEBRA I PART A

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	9, 10, 11, 12

Prerequisite Recommendation: Teacher recommendation

COURSE DESCRIPTION

This course is the first part of a two-year course for Algebra I. It is a regular level course taught using a hands-on approach with an emphasis on real-life problem solving skills. Topics will include foundations of Algebra; solving, writing, and graphing linear equations; functions and relations; data analysis and probability.

1400B ALGEBRA I PART B

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	9, 10, 11, 12

Prerequisite Recommendation: Algebra I Part I or Teacher recommendation

COURSE DESCRIPTION

This course follows and will expand the concepts and skills learned in Algebra I Part I. Topics will include operations with real numbers and expressions, linear functions, linear inequalities, linear systems, quadratic functions, polynomials, rational and radical functions. **The state-mandated Keystone Algebra I Exam will be taken at the completion of the course.**

401 ALGEBRA I ACADEMIC

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	9

Prerequisite Recommendation: Teacher recommendation

COURSE DESCRIPTION

This course introduces algebraic concepts through their applications, with an emphasis on problem solving and the reading and writing of mathematics. Topics include operations with variables, ratios, inequalities, exponents, properties with polynomials, linear and quadratic equations, linear systems, factoring, and data analysis and probability. **The state-mandated Keystone Algebra I Exam will be taken at the completion of the course.**

1410 ALGEBRA II

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	11, 12

Prerequisite Recommendation: Geometry or Algebra I

COURSE DESCRIPTION

This is a general level course designed to expose students to a multitude of different algebra functions, concepts, applications, and problem solving skills. Topics in this course include the study of linear, quadratic, exponential, logarithmic, radical, and rational functions. The course will include daily in-class assignments as well as occasional nightly homework assignments.

1411 ALGEBRA II ACADEMIC

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	9, 10, 11

Prerequisite Recommendation: Academic Algebra I or Teacher recommendation

COURSE DESCRIPTION

Students will extend prior algebraic concepts to learn about various families of functions (linear, quadratic, exponential, logarithmic, radical, and rational) and how to represent these functions in multiple ways. Homework is given nightly.

1412 ALGEBRA II HONORS

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	9, 10

Prerequisite Recommendation: Honors Algebra I and/or Teacher recommendation.
Summer work required

COURSE DESCRIPTION

This Algebra II course includes the study of functions, variation and graphs, matrices, exponentials, logarithms, trigonometry, polynomials, and quadratic relations. Independent, self-directed projects, which are in addition to regular class work, are a requirement for this honors level course.

1420 GEOMETRY

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	10, 11, 12

Prerequisite Recommendation: Algebra I Part II and/or Teacher recommendation

COURSE DESCRIPTION

Students will apply concepts such as lines, angles, two- and three-dimensions, and spatial visualization. Basic right triangle relationships and trigonometry will also be addressed. Homework is given occasionally.

1421 GEOMETRY ACADEMIC

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	10, 11, 12

Prerequisite Recommendation: Academic Algebra II

COURSE DESCRIPTION

This integrated mathematics course develops traditional geometry while studying visual patterns, shapes, and sizes enriching the students' backgrounds in the application of geometry. By the end of the year, students will experience constructing, visualizing, and comparing figures as well as understanding definitions, postulates, and theorems. Homework is given nightly.

1422 GEOMETRY HONORS

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	10, 11, 12

Prerequisite Recommendation: Completion of Honors Algebra II and/or Teacher recommendation.
Summer work required (Google classroom assignments with various due dates)

COURSE DESCRIPTION

Honors Geometry develops geometry skills while enriching the students' backgrounds in the application of geometry. Independent, self-directed projects in addition to regular classwork are a requirement of this honors level course. Topics will include an in depth study of lines, angles, polygons, transformations, perimeter, area, volume, similarity, circles, and trigonometry and various methods of proof.

1431 PRE-CALCULUS ACADEMIC

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	BCS, EIT, SHS	11, 12

Prerequisite Recommendation: Academic Geometry

COURSE DESCRIPTION

Students will be exposed to real life applications with an in-depth look at several functions including trigonometric, exponential, logarithmic, and polynomial functions. Students will extend knowledge of functions, specifically linear, quadratic, and higher degree polynomials. Students will need strong algebra skills to be successful in this course.

1432 PRE-CALCULUS HONORS

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.1	BCS, EIT, SHS	11

Prerequisite Recommendation: Honors Geometry and/or Teacher recommendation.
Summer work required (summer packet due the first day of school)

COURSE DESCRIPTION

Pre-Calculus will review and extend ideas about functions with the aid of a graphing calculator. The students will be exposed to real life applications with an in- depth look into statistical, trigonometric, logarithmic, and exponential and several other functions. Independent, self-directed projects, which are in addition to regular class work, are a requirement for this honors level course.

1441 STATISTICS ACADEMIC

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	11, 12

Prerequisite Recommendation: Algebra II or Geometry

COURSE DESCRIPTION

Statistics influence nearly all facets of our society including decisions in government, education, business, and politics. Statistical literacy helps students separate fact from fiction and develop a critical eye. This course will familiarize the students with the language of statistics and its basic concepts that apply to the business world, social sciences, and other disciplines.

1443 AP STATISTICS

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	11, 12

Prerequisite Recommendation: Algebra II and/or Teacher Recommendation.
 Summer work required (summer packet due the first day of school)

COURSE DESCRIPTION

Students will study concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics of study include patterns, sampling, experimentation, central tendency, variance, hypothesis testing, probability, statistical inference, graphing, and various kinds of distribution. Students will be encouraged to take the **AP Statistics Exam** at the end of this course.

1451 CALCULUS ACADEMIC

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	BCS, EIT	12

Prerequisite Recommendation: Pre-Calculus Academic

COURSE DESCRIPTION

Time will be spent in the beginning of the year reviewing key pre-calculus concepts. Students will then explore topics of limits, derivatives, integrals, and their applications. Focus of the course will be in the exploration of these topics without some of the rigor typically found in neither an honors level course, nor the fast pace required within an AP curriculum. This course will provide an excellent preparation for students interested in taking Business/Applied Calculus at the college level.

1453 AP CALCULUS AB

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.1	BCS, EIT	11, 12

Prerequisite Recommendation: Honors Pre-Calculus and/or Teacher recommendation.
 Summer work required (summer “pre-calc” review packet due the first day of school)

COURSE DESCRIPTION

Students will study the concepts of limits, continuities, derivatives, integrals, as well as applications of the derivative and the integral. Content of the course will focus on the concepts of the AP curriculum, but will occasionally extend to other concepts that are commonly taught in a college calculus course. Students will be encouraged to take the **AP Calculus AB Exam** at the end of the course.

1454 AP CALCULUS BC

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.1	BCS, EIT	11, 12

Prerequisite Recommendation: AP Calculus A/B and/or Teacher Recommendation.

COURSE DESCRIPTION

Students will study techniques of integration, parametric equations, polar coordinates, sequences, series, differential equations, and vectors. Students will be given the option to take the Advanced Placement test in Calculus B/C. Students enrolling in this course must be motivated, independent learners. This course will be delivered face-to-face at EPAHS, or via on-line, through a district-selected provider.

1480 KEYSTONE ALGEBRA I

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0		

Prerequisite Recommendation: Administrative Placement

COURSE DESCRIPTION

This course is designed to provide supplemental instruction to students who scored Below Basic or Basic on the Keystone Algebra I Exam in preparation for a retest. Through the use of direct instruction, independent completion of personalized on-line coursework, and guided practice on vocabulary, mathematical practices, and open-ended constructed response strategies students will be able to increase their mathematical concepts and skills necessary for passing the Keystone Algebra retest. Remediation is centered on the PA Common Core Standards, Keystone Exams Algebra I Eligible Content and Released Items, and Keystone Exams Algebra I Glossary to the Assessment Anchors.

1065 SAT PREPARATION

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	ALL PATHWAYS	10, 11, (12)

Prerequisite Recommendation: None

COURSE DESCRIPTION

College bound students electing this course concentrate on preparation for the mathematics and verbal sections of the SAT. Instruction and practice coincide with the contents of the standardized test. The verbal section focuses on vocabulary recognition, reading comprehension, accurate grammar and usage, and effective essay composition, while the mathematics section teaches students to select tools and computational strategies to investigate mathematical ideas and to solve problems and make connections among mathematical concepts and procedures, and relate mathematical ideas to situations or phenomena drawn from other contexts. Students complete research projects and oral presentations regarding career choice, college selection, and financial aid. This course is recommended to be taken in 10th or 11th grade due to typical SAT testing timelines.

1490 ALGEBRA I – PART A LS

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	9, 10

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

This course is designed for learning support students and uses a hands-on approach with an emphasis on real-life problem solving skills. Topics will include: foundations of Algebra; solving, writing, and graphing linear equations; functions and relations; data analysis and probability.

1491 ALGEBRA I – PART B LS

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	10, 11

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

This course is designed for learning support students and uses a hands-on approach with an emphasis on real-life problem solving skills. Topics will include: foundations of Algebra; solving, writing, and graphing linear equations; functions and relations; data analysis and probability. This course will build on skills learned in Part A. **The state-mandated Keystone Algebra I Exam will be taken at the completion of the course.**

1492 CONSUMER MATH I LS

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	11, 12

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

This course is designed for learning support students and focuses on basic mathematical computations, problem solving, and the completion of various forms necessary to function successfully in everyday society. Specific learning strategies identified in the Individual Education Plan are implemented.

1493 CONSUMER MATH II LS

Credit	Weight	Math	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	12

Prerequisite Recommendation: Functional Math I, and be a student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

This course is designed for learning support students and focuses on basic mathematical computations, problem solving, and the completion of various forms necessary to function successfully in everyday society. This course will build on skills learned in Part I. Specific learning strategies identified in the Individual Education Plan are implemented

SCIENCE DEPARTMENT

COURSE DESCRIPTIONS

1200 EARTH SCIENCE

Credit	Weight	Science	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	9

Prerequisite Recommendation: Teacher recommendation

COURSE DESCRIPTION

This course is a laboratory science designed to develop in the student an understanding of the earth and its surroundings through the study of topics in astronomy, meteorology, geology and hydrology. Earth Science provides the student with a framework for the understanding of everyday life. Weather forecasting, volcanic activity, earthquakes, storms, the atmosphere, meteor showers, and plate tectonics are some of the topics covered that relate directly to students' everyday lives. Emphasis and support will be provided in the areas of reading, writing, and critical thinking skills.

1201 EARTH SCIENCE ACADEMIC

Credit	Weight	Science	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	9

Prerequisite Recommendation: Teacher recommendation

COURSE DESCRIPTION

This course is a laboratory science designed to develop in the student an understanding of the earth and its surroundings through the study of topics in astronomy, meteorology, geology and hydrology. Earth Science provides the students with a framework for the understanding of everyday life. Weather forecasting, volcanic activity, earthquakes, storms, the atmosphere, meteor showers, and plate tectonics are some of the topics covered that relate directly to students' everyday lives.

1202 EARTH SCIENCE HONORS

Credit	Weight	Science	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	9

Prerequisite Recommendation: Teacher recommendation

COURSE DESCRIPTION

This course is a laboratory science designed to develop in the student an understanding of the earth and its surroundings through the study of topics in astronomy, meteorology, geology and hydrology. Earth Science provides the student with a framework for the understanding of everyday life. Weather forecasting, volcanic activity, earthquakes, storms, the atmosphere, meteor showers, and plate tectonics are some of the topics covered that relate directly to students' everyday lives. This course requires an independent work each marking period

1203 AP ENVIRONMENTAL SCIENCE

Credit	Weight	Science	Grade Level(s)
1.0 – Full Year	1.1	EIT, SHS	11, 12

Prerequisite Recommendation: Honors/Academic Biology I and/or Teacher recommendation

COURSE DESCRIPTION

This course will explore and investigate the natural world, identify and analyze environmental problems, (both natural and human-made), evaluate the relative risks associated with these problems, and examine alternative solutions for resolving and/or preventing them. Students will participate in hands-on, laboratory and field investigations to apply scientific principles, concepts, and methodologies in order to better understand natural systems and to critically think about environmental issues and potential solutions.

1204 EARTH SCIENCE II ACADEMIC

Credit	Weight	Science	Grade Level(s)
1.0 – Full Year	1.0	SHS	11, 12

Prerequisite Recommendation: Earth Science I

COURSE DESCRIPTION

This course is a laboratory science designed to develop in the students an understanding of the earth and its surroundings through the study of topics in astronomy, oceanography, meteorology, and geology. Earth Science II provides the students with a in-depth look at everyday life on and interaction with the Earth. A further look into the atmosphere, the hydrosphere and the geosphere will prepare the students for college level courses in the area of geoscience, if they choose to pursue.

1205 ECOLOGY ACADEMIC

Credit	Weight	Science	Grade Level(s)
1.0 – Full Year	1.0	SHS	11, 12

Prerequisite Recommendation: Biology I

COURSE DESCRIPTION

Ecology is the study of living organisms and how they interact with the living and non-living factors in the environment. The material in this course introduces students to an ecological-based approach to environmental and resource problems. Units covered in ecology are biodiversity, ecosystems & energy, biogeochemical cycles, , community and population ecology, climate change, waste management, , endangered species and water & soil quality. Students will be able to recognize the impact of their lives on the environment locally, regionally, and globally.

1206 PUBLIC HEALTH CRISIS AND RESPONSE

Credit	Weight	Science	Grade Level(s)
0.5 - Semester	1.0	AC, SHS	11, 12

Prerequisite Recommendation: Biology I

COURSE DESCRIPTION

The first unit of this course simulates the function of the CDC (Center for Disease Control) in the event of a disease outbreak. It is primarily lab-based. The second unit follows a toxic gasoline leak into the water table. This unit is also lab-based. Both units utilize the scientific method, measurement of qualitative and quantitative data, creation of graphs to represent data, running experiments to simulate disease identification, treatment and eradication, and stress the improvement of technical writing skills.

1208 FORENSIC STUDIES

Credit	Weight	Science	Grade Level(s)
0.5 - Semester	1.0	HS, SHS	11, 12

Prerequisite Recommendation: Biology I

COURSE DESCRIPTION

This course is designed to simulate the use of tools and techniques to solve a crime. Students will use techniques in basic chemistry and biology to gather evidence to solve a crime. Students will be learning proper etiquette of a crime scene and what a CSI agent does.

1210 BIOLOGY I

Credit	Weight	Science	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	10

Prerequisite Recommendation: Teacher recommendation

COURSE DESCRIPTION

This course integrates biology by presenting science in the context of major life issues (work, home, society and the environment). It prepares the student to make intelligent daily decisions relative to living in a technical society by providing access to basic science principles through hands-on learning. **The state-mandated Keystone Biology Exam will be taken at the completion of the course.**

1211 BIOLOGY I ACADEMIC

Credit	Weight	Science	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	10

Prerequisite Recommendation: Teacher recommendation

COURSE DESCRIPTION

This course offers a comprehensive study of the living world through investigative laboratory activities covering the topics of biochemistry, cells, genetics, biotechnology, evolution, and ecology. Laboratory activities are essential to accomplishing the objectives of this course. Students will develop critical thinking and analytical skills through completion of class and laboratory activities. **The state-mandated Keystone Biology Exam will be taken at the completion of the course.**

1212 BIOLOGY I HONORS

Credit	Weight	Science	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	10

Prerequisite Recommendation: Teacher recommendation

COURSE DESCRIPTION

This course consists of an analytical approach to the study of the living world through investigative laboratory activities covering the topics of biochemistry, cells, genetics, biotechnology, evolution, and ecology. Critical writing and research skills and laboratory activities are essential to accomplishing the objectives of this course. Students will develop an individual lab journal documenting their research and experimental data. **The state-mandated Keystone Biology Exam will be taken at the completion of the course.**

1214 ANATOMY AND PHYSIOLOGY HONORS

Credit	Weight	Science	Grade Level(s)
0.5 - Semester	1.1	SHS	11, 12

Prerequisite Recommendation: 1) Honors/Academic Biology
2) Completed or Concurrent with Chemistry I
3) Teacher Recommendation

COURSE DESCRIPTION

Anatomy and Physiology is a college preparatory course designed for students wishing to pursue a career in a medical/scientific field. Students will investigate the development of life from a single cell to its mature form. Topics include microbiology and the immune response, cellular development, organogenesis and the mammalian organ systems. The dissection of a fetal pig is an integral and required part of this course.

1215 MOLECULAR BIOLOGY HONORS

Credit	Weight	Science	Grade Level(s)
0.5 - Semester	1.1	SHS	11, 12

Prerequisite Recommendation: Honors/Academic Biology **and** Chemistry I and/or Teacher recommendation

COURSE DESCRIPTION

Molecular Biology is a college preparatory course designed for students wishing to pursue a career in a scientific field. Students will investigate the properties of water, organic macromolecules, biosynthesis, and genetic technology with the central theme being the relationship between molecular structure and function. Due to the nature of this course, a sound background in both chemistry and technical writing are strongly recommended.

1221 CHEMISTRY I ACADEMIC

Credit	Weight	Science	Grade Level(s)
1.0 – Full Year	1.0	SHS	11, 12

Prerequisite Recommendation: Completed or concurrent with Academic Algebra II
Academic Biology I and/or teacher recommendation

COURSE DESCRIPTION

Chemistry is the study of the composition, structure, and properties of matter and the changes that matter undergoes. This course follows a logical, sequential development of major chemistry principles and theories with the central theme being the properties and structure of matter. Due to the nature of the course, a sound mathematical background in algebra is recommended. Laboratory activities are essential to accomplishing the objectives of this course. This course will prepare students for college level chemistry.

1222 CHEMISTRY I HONORS

Credit	Weight	Science	Grade Level(s)
1.0 – Full Year	1.1	SHS	11, 12

Prerequisite Recommendation: Completed or concurrent with Academic/Honors Algebra II
Honors Biology I and/or teacher recommendation

COURSE DESCRIPTION

Chemistry is the study of the composition, structure, and properties of matter and the changes that matter undergoes. Chemistry I (Honors) follows a logical, sequential development of chemistry principles and theories. Since extensive mathematical applications are required for this course, students should have a firm understanding of algebra. Frequent student experimentation is integrated with the course work. Students will learn how to safely conduct laboratory experiments while working through chemistry related problems. This course will prepare students for advanced and college level chemistry.

1224 CHEMISTRY II HONORS: CHANGES AND PROPERTIES OF MATTER

Credit	Weight	Science	Grade Level(s)
0.5 - Semester	1.1	SHS	11, 12

Prerequisite Recommendation: Chemistry I and/or Teacher recommendation

COURSE DESCRIPTION

This course continues the study of chemistry with more in-depth study as well as new chemistry topics. Topics for this course include Matter and Atomic Theory, Stoichiometry, Chemical Reactions, Gases and the Kinetic-Molecular Theory, Thermochemistry, and Quantum Theory and Electron Configurations. Due to the nature of this course a sound mathematical background is needed, especially a firm understanding of algebra. Frequent student experimentation is integrated with the course work. Students will learn how to safely conduct laboratory experiments while working through more complex chemistry related problems. This course will prepare students for college level chemistry.

1225 CHEMISTRY III HONORS: CHEMICAL REACTIONS AND CHEMICAL BONDING

Credit	Weight	Science	Grade Level(s)
0.5 - Semester	1.1	SHS	11, 12

Prerequisite Recommendation: Chemistry I and/or Teacher recommendation

COURSE DESCRIPTION

This course continues the study of chemistry with more in-depth study as well as new chemistry topics. Topics for this course include Chemical Bonding, Intermolecular Forces, Kinetics, Chemical Equilibrium, Acids and Bases, and Thermodynamics. Due to the nature of this course a sound mathematical background is needed, especially a firm understanding of algebra. Frequent student experimentation is integrated with the course work. Students will learn how to safely conduct laboratory experiments while working through more complex chemistry related problems. This course will prepare students for college level chemistry.

1231 PHYSICS I ACADEMIC

Credit	Weight	Science	Grade Level(s)
1.0 – Full Year	1.0	EIT	11, 12

Prerequisite Recommendation: Completed Academic Algebra II

COURSE DESCRIPTION

This 1st year course is intended for students that are planning a non-physical science career and who are not necessarily going to encounter a physics course in college. It conceptually covers the material that would be encountered in a college preparatory course and beyond. However, this course focuses more on hands-on-learning through labs, activities and projects than a traditional physics course. It is intended to give students a basic knowledge of both classical and modern physics.

1232 PHYSICS I HONORS

Credit	Weight	Science	Grade Level(s)
1.0 – Full Year	1.1	EIT	11, 12

Prerequisite Recommendation: Completed or concurrent with Pre-Calculus

COURSE DESCRIPTION

This 1st year course is intended for students that are planning a science career and who are likely to encounter a physics course in college. This course is designed to provide both a theoretical and practical understanding of an introductory mechanics course. The theoretical understanding will be a result of a comprehensive mathematical approach and the practical understanding will be founded in extensive laboratory exercises. It is non-calculus based, although students should have a firm understanding of algebra, geometry and trigonometry. This course is designed to be the first part of the 2-year curriculum that will prepare students for a post-secondary curriculum in science as well as the Physics AP-B exam.

1234 PHYSICS II: ELECTRICITY AND MAGNETISM HONORS

Credit	Weight	Science	Grade Level(s)
0.5 - Semester	1.1	EIT	11, 12

Prerequisite Recommendation: Physics I and/or Teacher recommendation

COURSE DESCRIPTION

Physics II - Electricity & Magnetism is a college-preparatory course designed to introduce students to fundamental concepts of electricity and magnetism. The course will look comprehensively at the evolution of the electromagnetic theory spanning from the origin up to and including modern, solid-state electronics. Other topics will include electromagnetism as it relates to electromagnetic waves (light), AC & DC circuits and complex resistor networks. Mathematical background should include a sound understanding of algebra and geometry.

1235 PHYSICS III: MODERN PHYSICS HONORS

Credit	Weight	Science	Grade Level(s)
0.5 - Semester	1.1	EIT	11, 12

Prerequisite Recommendation: Physics II: Electricity & Magnetism and/or Teacher recommendation

COURSE DESCRIPTION

Physics II - Modern Physics is a college-preparatory course designed to introduce students to advancements in physics originating at the beginning of the twentieth century. Topics will include breakthrough theories in atomic and nuclear physics, relativity, quantum physics and some developing theories in astro-physics and cosmology. Mathematical background should include a sound understanding of algebra and geometry.

1280 KEYSTONE BIOLOGY I

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0		

Prerequisite Recommendation: Administrative Placement

COURSE DESCRIPTION

This course is designed to provide supplemental instruction to students who scored Below Basic or Basic on the Keystone Biology Exam as preparation for a retest. Through the use of direct instruction, independent completion of personalized on-line coursework, and guided practice on vocabulary, laboratory practices, and open-ended constructed response strategies students will be able to increase their biology concepts and skills necessary for passing the Keystone Biology retest. Remediation is centered on the PA Academic Standards, Keystone Exam Biology Eligible Content and Released Items, and Keystone Exam Biology Glossary to the Assessment Anchors.

SOCIAL STUDIES DEPARTMENT

COURSE DESCRIPTIONS

1300 AMERICAN HISTORY (Reconstruction Up to the Cold War)

Credit	Weight	Social Studies	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	9

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course traces the history of our nation from Reconstruction to the Cold War. Students will study the struggles facing America during the Reconstruction Era through the beginnings of the Cold War along that focus on the initial conflicts and cooperation with outside countries. Emphasis will be on development of reading, writing, thinking, and geography skills.

1301 AMERICAN HISTORY ACADEMIC (Reconstruction Up to the Cold War)

Credit	Weight	Social Studies	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	9

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course is designed for academic students and will cover the period from the Post-Civil War Era of Reconstruction up to the Cold War in American History. Students will study the struggles facing America during the Reconstruction Era through the beginnings of the Cold War along that focus on the initial conflicts and cooperation with outside countries. Examining political elections and changes in political views will lead students to understand the progression of American politics, economy, and society.

1302 AMERICAN HISTORY HONORS (Reconstruction Up to the Cold War)

Credit	Weight	Social Studies	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	9

Prerequisite Recommendations: Approval of 8th grade Social Studies instructor
93% average in 8th grade Social Studies
Summer work required (Guided reading and quizzes for designated chapter, analysis of primary source documents, and a writing prompt associated with the primary source assignment. Students will have access to a digital handbook and a google classrooms page with all assignments & deadlines due PRIOR to the start of school.

COURSE DESCRIPTION

Honors American History is a study of the Post-Civil War Era of Reconstruction and the historical, political, economic, and cultural events that shaped the nation's history to the beginning of the Cold War. Multicultural themes are incorporated into the course and include the contributions of people of various ethnic, racial, religious, and cultural groups.

Students will engage in an in-depth analysis of the historical events requiring the use of critical thinking skills, active participation in projects and discussions, and the demonstration of advanced writing techniques. Cooperative learning, basic historical research, debating skills, historical media programs, and concept mapping techniques will be used. This course is designed for the active learner who wants to do high quality, challenging work in preparation for college. Students will be required to do outside reading and essay writing.

1310 CONTEMPORARY GLOBAL HISTORY

Credit	Weight	Social Studies	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	10

Prerequisite Recommendation: None

COURSE DESCRIPTION

New Course Description: Contemporary Global History is a course designed to help students understand the world around them and gain valuable insight into the modes and manners of the United States' global neighbors. The course content focuses on 1945 to the present, exploring various Western and non-Western regions and continents including the United States, Europe, Latin America, Africa, the Middle East, and Asia. The course provides geographical, historical, political, economic, and social perspectives of each region and gives students an opportunity to appreciate, respect and understand the cultural differences of the people of these regions and their relationships to the United States in the contemporary world. Throughout the course, students will understand how historical events have led to current global issues.

1311 CONTEMPORARY GLOBAL HISTORY ACADEMIC

Credit	Weight	Social Studies	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	10

Prerequisite Recommendation: None

COURSE DESCRIPTION

Contemporary Global History is a course designed to help students understand the world around them and gain valuable insight into the modes and manners of the United States' global neighbors. The course content focuses on 1945 to the present, exploring various Western and non-Western regions and continents including the United States, Europe, Latin America, Africa, the Middle East, and Asia. The course provides geographical, historical, political, economic, and social perspectives of each region and gives students an opportunity to appreciate, respect and understand the cultural differences of the people of these regions and their relationships to the United States in the contemporary world. Throughout the course, students will understand how historical events have led to current global issues.

1312 AP U.S. HISTORY (1400 to the Present)*

Credit	Weight	Social Studies	Grade Level(s)
1.0 – Full Year	1.1	AC, HS	10 (11, 12)*

Prerequisite Recommendations: Approval of 9th grade Social Studies instructor
85% in 9th Grade Honors or 93% in 9th Grade Academic American History
Summer work required (Summer reading and note taking/outlining for designated chapters, chapter quizzes, and essay submission due the week prior to the beginning of the school year.

COURSE DESCRIPTION

This honors program in U.S. History is designed to provide students with the analytic skills and factual knowledge necessary for a thorough understanding of our nation's history. This comprehensive course is specifically created for the active learner who wants to do high quality, challenging work in preparation for college. Students will engage in an in-depth analysis of the historical events requiring the use of critical thinking skills, active participation in projects and discussions, and the demonstration of advance reading and writing techniques. Cooperative learning, basic historical research, debating skills, historical media programs, and concept mapping techniques will be used. Students will be required to do outside reading and to conduct research for independent projects.

At the conclusion of this course, students are strongly encouraged to take the **AP US History Exam**. The content of the course and the focus of instruction will be geared toward College Board and Advanced Placement curriculum expectations.

*11th and 12th grade students may take this course as an elective with approval from the course instructor.

1322 AP EUROPEAN HISTORY*

Credit	Weight	Social Studies	Grade Level(s)
1.0 – Full Year	1.1	AC, HS	11, (12)*

Prerequisite Recommendations: Approval of 10th grade Social Studies instructor
85% in 10th Grade Honors or 93% in 10th Grade Academic American History
Summer work required (Summer reading and note taking/outlining for designated chapters, chapter quizzes, and essay submission due the week prior to the beginning of the school year.

COURSE DESCRIPTION

This course traces the chronological history of Europe from the Renaissance through the modern era. Its purpose is to challenge students to develop an in-depth understanding of the intellectual, cultural, political, diplomatic, social and economic themes that define western civilization. The curriculum, which includes historical reading, research and writing, will develop students' critical thinking skills as they analyze the history of Europe and the role it played in the development of the modern world. Successful completion of this course will ensure that students can identify and analyze key events and trends of European History as well as develop critical and creative thinking skills.

At the conclusion of this course, students are strongly encouraged to take an **AP European History Exam**. The content of the course and the focus of instruction will be geared toward College Board and Advanced Placement curriculum expectations.

*12th grade students may take this course as an elective with approval from the course instructor.

1331 AMERICAN GOVERNMENT

Credit	Weight	Social Studies	Grade Level(s)
0.5 - Semester	1.0	ALL PATHWAYS	11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course focuses on the foundations of the American political system. The curriculum includes the powers of the United States Constitution, the influence of federalism, the three branches of government, the responsibilities of enlightened citizens, and the establishment of civil rights and liberties. The organization and powers of local and state governments will also be examined with practical applications. Emphasis will be placed on development of reading, writing, and thinking skills.

1332 GLOBAL POLITICAL SYSTEMS

Credit	Weight	Social Studies	Grade Level(s)
0.5 – Semester	1.0	ALL PATHWAYS	11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course examines the functions, behaviors, policies, and roles of various global political systems at the national, international, and transnational levels. Students will analyze the goals of foreign policies, internal conflicts, and their influence on national and international interests. The role of geopolitics, actions of international organization, diplomacy, and the bearing of these elements on contemporary issues on the international stage will also be explored.

1333 AP UNITED STATES GOVERNMENT AND POLITICS

Credit	Weight	Social Studies	Grade Level(s)
1.0 – Full Year	1.1	AC, HS	11, (12)*

Prerequisite Recommendations: Approval of 11th grade Social Studies instructor
85% in 11th Grade Honors or 93% in 11th Grade Academic Global History
Summer work required (Reading questions and an essay necessitating the analysis of documents that helped to serve as the basis for American government in the late 18th century. This work is designed to help students examine the main points and arguments most relevant to American government.

COURSE DESCRIPTION

This course is designed to provide a challenging, in-depth examination of the American political system. It will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. Furthermore, they will be able to identify and evaluate principles of American government including democratic influences on the present political system, foundations of the U.S. Constitution, political ideologies, elections, branches of government, public policy, along with civil rights and liberties.

At the conclusion of this course, students are strongly encouraged to take the **AP US Government and Politics Exam**. The content of the course and the focus of instruction will be geared toward College Board and Advanced Placement curriculum expectations.

1340 CONTEMPORARY SOCIAL STUDIES (CSS)

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, HS	11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

Students will study the problems facing the United States and the world in the 21st century. Focus will be on world history from 1990, economics, political and environmental issues, and geography.

1341 PHILOSOPHY AND WORLD RELIGIONS

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, HS	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course is designed to give students a general introduction to the subject of philosophy through an examination of key historical figures and pertinent philosophical topics. After introducing students to a working definition of philosophy, the works of famous philosophers will be studied. Additionally, religions from around the world have shaped the political, social, and cultural aspects of societies. This course introduces students to the major religions that have played a role in human history, including Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, Shintoism, and Taoism. Students trace the major developments in these religions and explore their relationships with social institutions and culture. The course also looks at some of the similarities and differences among the major religions and examines the connections and influences they have.

1370 AMERICA'S LEGAL SYSTEM

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, HS	11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

America's Legal System provides an introduction to law and the legal system in America. The curriculum will cover lawmaking, advocacy, the court system, criminal law, juvenile justice and civil wrongs. Students will engage in case studies, mock trials, and role-plays, enabling them to actively participate in legal research and analysis. The course reflects changes in law and legal procedure overtime, including the expansion of individual rights and liberties. A field trip to observe court proceedings will be an integral part of the student's experience.

SOCIAL STUDIES DEPARTMENT

BEHAVIORAL STUDIES COURSE DESCRIPTIONS

1350 SOCIOLOGY I ACADEMIC

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, BCS, HS, SHS	11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

Sociology is the scientific study of social structure. This course will introduce students to the study of sociology. The students will learn about the history and methods used in the field before learning about how society teaches us how to act; or socialization. Students will then learn about similarities and differences of cultures around world and various forms of social structures. Next, students study deviance; what determines whether a behavior is normal or abnormal. Finally, students will study inequality in society, looking at gender, race, ethnic and age related inequalities. This is the first part of a course that is meant to give students a foundation of knowledge that they can use in the second part of the class or in an introductory college level class. Students who are interested in such fields as education, criminal justice, law and politics, social work, marketing or any other social science related field should consider taking this elective. Students who take this course are encouraged to further their studies by taking Sociology II.

1351 SOCIOLOGY II ACADEMIC

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, BCS, HS, SHS	11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

In the second half of sociology, students will continue their study of the field of sociology, delving deeper into more advanced sociological topics. First students will study social institutions. Social institutions are groups of people who come together for a common purpose. Students will study various social institutions during the first half of this course. Some institutions of study include family, religion, education, political systems and sports. During the second half of the course students will study social change. Students will look at how population changes lead to changes in society. They will also consider changes brought about by advances in technology, social movements, the environment, revolution and war, and rumors, legends, fads and fashions. Any student who has taken Sociology I and is considering such fields as education, criminal justice, law and politics, social work, marketing or any other social science related field are encouraged to take this elective.

1360 PSYCHOLOGY I ACADEMIC

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, BCS, HS, SHS	11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

Designed to align with most entry-level college courses, a variety of topics are introduced in the first part of this two part elective course. The course begins with an overview of the history of psychology followed by a study of the research methods used by psychologists. Other units of study include biology and behavior, in which students learn the parts of the brain and nervous system, sensation and perception, states of consciousness, learning, and stress and health. Although it is an elective course, the material is academic and sometimes abstract. Students who are going into education, business, marketing, medical, criminal justice, social work or any other line of work that deals with people should consider taking this elective. This is a prerequisite to psychology II.

1361 PSYCHOLOGY II ACADEMIC

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, BCS, HS, SHS	11, 12

Prerequisite Recommendation: Psychology I

COURSE DESCRIPTION

In this continuation of psychology I, students will continue their study of the field of psychology. Having a background in the field, students will delve deeper into this social science with units of study including development through the lifespan, social psychology, personality theory, motivation and emotion, cognition, psychological disorders and treatment and therapy. Although it is an elective course, the material is academic and sometimes abstract. Students who have taken psychology I and are going into education, business, marketing, medical, criminal justice, social work or any other line of work that deals with people should consider taking this elective.

1363 AP PSYCHOLOGY

Credit	Weight	Social Studies	Grade Level(s)
1.0 – Full Year	1.1	AC, BCS, HS, SHS	11, 12

Prerequisite Recommendation: 85% or higher in 10th grade academic or honors history course
Summer work required (Work from text, notetaking, read a supplemental reading, research project based on reading. Work will be due the week before the start of school)

COURSE DESCRIPTION

Students who choose to take this elective will acquire the skills needed to pass the AP psychology exam and gain the knowledge equivalent to a college level introductory psychology course. Topics of discussion will include sensation and perception, states of consciousness, learning cognition, motivation and emotion and developmental psychology among others.

At the conclusion of this course, students are strongly encouraged to take the **AP Psychology Exam**. The content of the course and the focus of instruction are geared toward College Board and Advanced Placement curriculum expectations.

VISUAL AND PERFORMING ARTS DEPARTMENT

VISUAL ARTS COURSE DESCRIPTIONS

1800 WORLD CRAFTS

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, EIT	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This studio course is a fusion of world geography and culture and student designed and created craft projects. Students will learn about using design principles in their compositions using various media. Units include: ceramics, weaving, batik, latch hook, papier mache. Each unit has a geographical and cultural connection that provides inspiration for the design of the project. Additionally, students will read and respond to articles about the art and crafts of various cultures and the geography of many parts of the world.

1801 AMERICAN CRAFTS

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, EIT	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This class explores aspects of American history and culture as they relate to traditional and contemporary craft objects. Students will create original projects in the studio using a variety of materials. Units may include: ceramics, fibers- coil baskets, 2D and 3D felt projects, Zentangle, book arts. Students will also read about historical and contemporary American artists and craftspeople.

1810 ART I

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, EIT	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This introductory course is designed to increase student studio proficiency in the areas of drawing and painting. While using varied media, students will gain skills at recognizing and using the elements of art and the principles of design to create visual images. Media used may include: graphite, charcoal, chalk pastel, watercolor paint, acrylic paint, oil pastel. Art historical topics will also be explored and aspects of art criticism and aesthetics will be investigated. Students will maintain a notebook and portfolio throughout the semester.

1811 ART II

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, EIT	10, 11, 12

Prerequisite Recommendation: Art I and/or Teacher recommendation

COURSE DESCRIPTION

This course is designed to further increase the technical skills of students in both two and three- dimensional art forms. Students will have more input and more options regarding project outcomes that will lead to greater levels of self- expression and creativity. Units will include the use of a variety of two- dimensional and three- dimensional art materials. Students will also view artwork from a variety of artists and explore the methods and media used by these artists. They will gain greater understanding of the use of the elements and principles of design and critical analysis as it relates to their own work and the work of others. Students will be required to maintain an actual and virtual portfolio for the course and also a sketchbook.

1812 ART III

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, HS	10, 11, 12

Prerequisite Recommendation: Art I and/or teacher recommendation

COURSE DESCRIPTION

This course is designed to continue to increase the knowledge and skills of students in the use of a variety of visual art materials. A stronger focus on two- dimensional media will occur but three- dimensional art will still be present in the form of mixed media explorations. Student project options will continue to offer greater flexibility for self- expression and individual interests. The work of other artists will be viewed and analyzed to gain an increased understanding into the processes of critical analysis and self- expression. Students will be required to maintain an actual and virtual portfolio throughout the semester and also create and maintain an Artist's Book.

1813 ART IV HONORS

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.1	AC, HS	11, 12

Prerequisite Recommendation: Art I and/or teacher recommendation

COURSE DESCRIPTION

This course is designed to be a culminating experience for students who plan to further their art education after high school and/ or view visual art explorations as a lifelong passion. Students will complete projects that reflect a focus in 2 or 3 art areas in regard to specific media and/ or themes. Students will be engaged in a state of continual reflection and analysis regarding their work and the work of other artists that they have selected to investigate. Students will be required to maintain a sketchbook and actual and virtual portfolio. They will also be required to create an exhibit of their work to be presented at the Spring Arts Show or other district sponsored venue.

1850 DIGITAL PHOTOGRAPHY I

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, HS	11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course is designed for students to learn the basic formal and conceptual techniques of photography. We will be using Adobe Photoshop to process and manipulate images in class. Art based photography projects will also be introduced. Phone cameras can be used but students are encouraged to use a digital camera.

1851 DIGITAL PHOTOGRAPHY II

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, HS	11, 12

Prerequisite Recommendation: Digital Photography

COURSE DESCRIPTION

This course will continue with the formal and conceptual techniques learned in Digital Photography with more emphasis placed on the exploration of individual themes and styles. We will be using Adobe Photoshop to process and manipulate the pictures in class. Some of the photography assignments will be shot as homework assignments. Additional art based photography projects will also be utilized. Students are encourage to use a digital camera.

1855 AP ART HISTORY

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.1	AC	11, 12

Prerequisite Recommendation: 85% in English II or better

COURSE DESCRIPTION

In this AP course students will explore the vast array of visual images that have been created by humans through many different time periods and places. Units will include: Contemporary Global Art, Twentieth Century Art, Asian and Oceanic Art, African Art, American Art, Early and Later European Art, Ancient Mediterranean Art, Global Prehistoric Art. Students will also experience art through virtual and on-site field trips to local and regional galleries and museums. This is not a studio class. Summer work will be required and will be due the first week of the school year and may include: reading assignments, short writing assignments and viewing art virtually and on-site.

At the completion of this course, students are strongly encouraged to take an **AP Art History Exam** for possible college credit. The content of the course and the focus of instruction will be geared toward College Board and AP curriculum expectations.

VISUAL AND PERFORMING ARTS DEPARTMENT

PERFORMING ARTS COURSE DESCRIPTIONS

1860 CONCERT BAND

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.0	AC	9, 10, 11, 12

Prerequisite Recommendation: Previous large ensemble experience. Students who wish to learn should meet with the band director to schedule a series of lessons before gaining entry to the course.

COURSE DESCRIPTION

Concert band performs two concerts per year as well as commencement and community parades. Concert band is a large student ensemble comprised of traditional concert band instruments. Course can be repeated for up to 4 credits.

1870 CONCERT CHOIR

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.0	AC	9, 10, 11, 12

Prerequisite Recommendation: Previous large ensemble experience. Students who wish to learn should meet with the choral director to schedule a series of lessons before gaining entry to the course.

COURSE DESCRIPTION

Concert choir performs two concerts per year. Senior members as well as select vocalists are required to perform at graduation. Other choral activities may be required. Course can be repeated for up to 4 credits.

1880 MUSIC THEORY I

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC	10, 11, 12

Prerequisite Recommendation: Students must have a strong background in the fundamentals of music and should currently be an active musician in or out of school.

COURSE DESCRIPTION

Music theory is an intensive study of fundamentals of music including harmony, melody, scales/modes, and musical form. Aural training is a component of this course. If you are currently not a member of a performing ensemble, signature is required.

1881 MUSIC THEORY II

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC	10, 11, 12

Prerequisite Recommendation: Music Theory I

COURSE DESCRIPTION

This course is an extension of skills acquired in Music Theory I. This course is designed for students who are looking to pursue a career in a music related field. Topics such as Roman numeral analysis, melodic and harmonic dictation, voice-leading, and two and four part writing will be covered.

1882 MUSIC HISTORY

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC, HS	10, 11, 12

Prerequisite Recommendation: Music Theory I or Teacher Recommendation

COURSE DESCRIPTION

This is a concentrated course in the history and development of Western Art Music in Europe and the Western Hemisphere. It is designed for those who may elect to major (or minor) in music at the college level.

1884 SIGHT-SINGING

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC	10, 11, 12

Prerequisite Recommendation: Music Theory I

COURSE DESCRIPTION

Sight-singing develops the skills necessary to make successful musical performance more immediate, more accurate, and with less rehearsal and preparation.

1885 SOLO LITERATURE AND AUDITION PREPARATION

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC	9, 10, 11, 12

Prerequisite Recommendation: Teacher recommendation

COURSE DESCRIPTION

This course is designed to allow for concentrated instruction and practice in advanced musical literature and is oriented toward preparation for District Band and/or District Chorus.

1886 THEATRE ARTS

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

Students will explore the history of theater and the related arts. They will be expected to prepare, perform, and perfect variety of materials from across the realms of visual and performing arts. The final exam will consist of a performance component.

1890 LEARN TO PLAY GUITAR AND PIANO

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This is an introductory course designed to teach students the basic techniques of guitar and keyboard playing. Each unit includes playing activities and written exercises which are essential to building skills. Topics include: parts of the guitar/keyboard, proper posture, instrument hold/correct hand position, chord playing and reading, scale patterns, strum patterns/finger techniques, reading and performance of melody lines/short musical lines, and basic music theory. Students will be assessed on a regular basis through performance demonstrations and written tests.

1895 MUSIC OF DISNEY AND BROADWAY

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

Students will examine the music of Disney and Broadway through an exploration of historical contexts, classic performances, and meaningful compositions/techniques. This course will include an introduction to Music Technology, a final performance or composition, and detailed historical examinations of Disney, Broadway, and their synergistic combination.

WORLD LANGUAGES DEPARTMENT

COURSE DESCRIPTIONS

1501 SPANISH I

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	9, 10, 11, 12

Prerequisite Recommendation: English Teacher recommendation

COURSE DESCRIPTION

The material in this course introduces the student to the basics of Spanish communication, linguistics, and Hispanic culture. Students will practice listening and pronunciation skills. Students will be able to read and write on an elementary level, as they learn basic Spanish vocabulary and grammar. Successful completion of this course will ensure that students can communicate and comprehend the Spanish language at a (sufficient) level to qualify for Spanish II studies.

1502 SPANISH II

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	10, 11, 12

Prerequisite Recommendation: 80% in Spanish I or teacher recommendation

COURSE DESCRIPTION

The material in this course develops the student's understanding of Spanish communication, linguistics, and Hispanic culture. The concepts studied are important because they provide the basic knowledge necessary to communicate in the Spanish language and to appreciate a variety of aspects of Hispanic culture. Successful completion of this course will ensure that students can communicate and comprehend the Spanish language at a (sufficient) level to qualify for Spanish III studies.

1503 SPANISH III HONORS

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	11, 12

Prerequisite Recommendation: 85% average in Spanish II, teacher recommendation, and completion of required summer work

COURSE DESCRIPTION

This course stresses continual use of the Spanish language through short stories, mini-novels, listening activities, conversations, and music. Grammatical structures appropriate to this level of study are integrated throughout the course as well as a variety of cultural topics. A strong emphasis is placed on both listening and reading and students are to accurately produce the language through speaking and writing.

Students in Spanish III will continue to learn intermediate to advanced structures. Reading, writing, speaking, and listening/comprehending will be stressed, and students will be expected to read and write at an intermediate-advanced level, and be conversational after completing the course.

1504 SPANISH IV HONORS

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	12

Prerequisite Recommendation: 85% average in Spanish III, teacher recommendation
 Summer work required (packet to be completed by the end of the first week of school)

COURSE DESCRIPTION

This course stresses continual use of the Spanish language through short stories, mini-novels, Spanish literature and excerpts, listening activities, conversations, music, and poetry. Grammatical structures appropriate to this level of study are integrated throughout the course as well as a variety of cultural topics. A strong emphasis is placed on both listening and reading and students are to accurately produce the language through extensive speaking writing. Spanish IV enriches the vocabulary and grammar of the student beyond their third year of study. Conversational abilities of the student are expanded through the use of Spanish in the classroom.

1511 FRENCH I

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	9, 10, 11, 12

Prerequisite Recommendation: English teacher recommendation

COURSE DESCRIPTION

French I is an introduction to commonly used French expressions and vocabulary. Students will learn how to talk about themselves, things they like to do, the time and weather, food, clothing, and animals. Students will also learn about aspects of the French culture, such as famous places, customs, and holidays, all while interacting with the language in an authentic manner through conversations, projects, and traditional assessments. The course provides the student with the skills to read, write, and converse in French at a basic level.

1512 FRENCH II

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.0	ALL PATHWAYS	10, 11, 12

Prerequisite Recommendation: 80% in French I or teacher recommendation

COURSE DESCRIPTION

French II is an expansion of commonly used French expressions and vocabulary, with a deeper look at the grammar of the language. Students will learn how to talk about what they will do in the future and what they did in the past; they will also learn how to describe others, give directions, talk about school, food, professions, and their houses. Students will also learn about aspects of the French culture, such as the French school system and various French speaking cities, all while interacting with the language in an authentic manner through conversations, written assignments, projects, and traditional assessments. The course provides the student with the skills to read, write, and converse in French at an low-intermediate level.

1513 FRENCH III HONORS

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	11, 12

Prerequisite Recommendation: 85% in French II and teacher recommendation
 Summer work required (packet due at the end of the first week of school)

COURSE DESCRIPTION

French III continues to utilize the vocabulary and structure acquired in the first two levels of French while expanding on students' ability to communicate at a high level through speaking and writing. Students will learn a variety of new tenses and pronouns used in the French language, while also exploring topics such as travel, furniture, cooking, accidents, and chores. Students will learn about aspects of the French culture, such as common products of France and famous French people, all while interacting with the language in an authentic manner through conversations, writing assignments, projects, reading short stories, and traditional assessments. The course provides the student with the skills to read, write, and converse in French at an high-intermediate level.

1514 FRENCH IV HONORS

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.1	ALL PATHWAYS	12

Prerequisite Recommendation: 85% in French III and teacher recommendation
Summer work required (writing a letter to a friend describing your summer in French, due at the end of the first week of school)

COURSE DESCRIPTION

French IV uses the vocabulary, structure, and grammar acquired in the first three levels of French as a springboard for discussion and exploration of French history, literature, art, and geography. Students will learn more tenses to increase their ability to speak and write at a high level in the language, while exploring topics such as health, architecture, French slang, and travel. Students will learn about aspects of the French culture through reading novels, researching artists, watching movies, and studying famous French people, all while interacting with the language in an authentic manner through informal conversations, writing assignments, speaking assignments, and traditional assessments. The course provides the student with the skills to read, write, and converse in French at an low-advanced level.

1530 INTERNATIONAL CULTURES/TRAVEL

Credit	Weight	Elective	Grade Level(s)
0.5 – Semester	1.0	AC, HS	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course provides the basic information and encouragement that students need in order to approach international travel. Students will research and discuss various countries of the world including: cultural differences, basic phrases in some of the languages, tourist attractions, and essential travel information.

SPECIAL PROGRAMS

COURSE DESCRIPTIONS

1010 LATE ARRIVAL – SEMESTER 1

1011 LATE ARRIVAL – SEMESTER 2

Credit	Weight	Elective	Grade Level(s)
None	None		12

1012 EARLY DISMISSAL – SEMESTER 1

1013 EARLY DISMISSAL – SEMESTER 2

Credit	Weight	Elective	Grade Level(s)
None	None		12

1015 TEACHER INTERNSHIP

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0		9, 10, 11, 12

Prerequisite Recommendation: Students must have their potential internship teacher send the Counseling Office notice that they are willing to accept them as an intern. Administrative Approval Required

COURSE DESCRIPTION

This experience provides students the opportunity to work with a faculty member in the building, providing a valuable community service in supporting classroom activities. Responsibilities for the internship would vary depending on the teacher and the period of the internship. Students will receive a final grade for the internship based on a rubric that the teacher would complete evaluating the intern's work and attitude during the experience.

1040 HEALTH CARE CAREERS INTERNSHIP PROGRAM

Credit	Weight	Elective	Grade Level(s)
1.5 – Semester (3 periods)	1.0	SHS	12

Prerequisite Recommendation: Application Process Required

COURSE DESCRIPTION

This program will supplement structured learning in the classroom with opportunities to explore a variety of health care careers in a work-based environment. Students will work with health care professionals at Holy Spirit Hospital three periods per day for one semester and participate in department observations, seminars, one-to-one mentor interaction, and limited hands-on experiences. It is designed to help students make informed choices about career options in their field of interest and is a way to explore jobs in their chosen career pathway. Interested students should contact the Counseling Office for details. Students are responsible for transportation to the hospital.

1045 SERVICE LEARNING

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, BCS, HS	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

The course is designed to provide students with analytic skills and an opportunity to use skills learned in various subject areas within a practical community setting. Students will be engaged in significant, genuine service learning activities in the school environment to learn through reflection about the experience of serving others. In addition to volunteer activities, subjects covered within the course will include knowing yourself, leadership, team building (including teamwork and collaboration), goals, planning, decision making, problem solving, breaking down stereotypes, and careers in service.

1046 SERVICE LEADERSHIP

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	AC, BCS, HS	10, 11, 12

Prerequisite Recommendation: Service Learning

COURSE DESCRIPTION

This course will further expand upon the topics and volunteer opportunities and connections gained in the first level of the course. This class will focus more on the student having opportunities to assume responsibilities for planning meaningful activities for not only the class, but for the LSS class as well. There will be an emphasis on leadership, communication, accountability, and self-reflection. Students will work closely with the LSS classroom and Special Olympics, but may have the opportunity for service elsewhere in the community.

1050 WORK-STUDY EXPERIENCE – FULL YEAR

Credit	Weight	Elective	Grade Level(s)
2.0 – Full Year (2 periods)	1.0		12

1051 WORK-STUDY EXPERIENCE – SEMESTER

Credit	Weight	Elective	Grade Level(s)
1.0 – Semester (2 periods)	1.0		12

Prerequisite Recommendation: Must have employment

COURSE DESCRIPTION

The Work-Study Experience will offer qualified seniors the opportunity to schedule required classes during the morning and obtain a part-time job during the afternoon. It is designed to provide supervised paid employment under the guidance of an experienced mentor in their field of interest as indicated by their selection of Career Pathways. This course will give students a chance to apply the skills and knowledge they have learned in their academic courses in a real world experience. Through enrollment in this program, students will be able to make more informed choices about their future and assess their opportunities for advancement, job satisfaction, and further training and education. A certified cooperative education coordinator employed by the school district will make regular on-the-job observations of the students, confer with the student’s employer about fulfillment of job responsibilities, and assess the student’s academic and work progress. The students must be able to provide their own transportation to and from the work site and meet all attendance, academic, and behavioral standards listed in the Work-Study Experience Application.

1055 DESIGN THINKING

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	ALL PATHWAYS	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course emphasizes the comprehension of the design thinking process and application of it to school- and/or community-based matters. Students will learn how to lead a design thinking session while applying what they learn to solve real world problems and to bring ideas for improvement to fruition.

1056 NEW MEDIA COMMUNICATION

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0	ALL PATHWAYS	9, 10, 11, 12

Prerequisite Recommendation: None

COURSE DESCRIPTION

This course emphasizes the development and application of reading, writing, listening, and viewing to the study of emerging forms of media as they relate to our daily lives. The course will also focus on how emerging technologies and interactive media can be used to empower, entertain, collaborate and educate.

GIFTED EDUCATION – DISCOVER PROGRAM

1060 GIFTED CLASS/INTERN

Credit	Weight	Elective	Grade Level(s)
0.25	None		9, 10, 11, 12

Prerequisite Recommendation: Identified as a student with gifted academic abilities and teacher approval

COURSE DESCRIPTION

Freshmen will have the opportunity to participate in Finance Park, an economics education program that introduces students to personal financial planning and career education. At the culmination of this program, students put into practice what they've learned about economic options and the principles of budgeting. Sophomores may elect to continue their quest for financial literacy through a more challenging on-line personal finance course. Juniors and Seniors will have the opportunity to participate in career conferences/seminars as well as job shadowing experiences throughout the school year. Seniors may adjust their schedules to participate in an internship option during the school day in an area of interest that may be a future career choice.

1061 GIFTED COMPETITIONS

Credit	Weight	Elective	Grade Level(s)
0.25	None		9, 10, 11, 12

Prerequisite Recommendation: Identified as a student with gifted academic abilities and teacher approval

COURSE DESCRIPTION

Discover students will have the opportunity to prepare for and participate in academic competitions. To receive credit, students must attend preparation meetings and participate in competitions for two of the following academic competition options. Competitions may include 3-2-1 Quiz Competition, JA Titan Challenge, Quiz Bowl Team, and/or The Stock Market Challenge. A .25 credit course is the equivalent of a course offered for 34 hours of class time, so regular attendance for this option is necessary.

1062 GIFTED INDEPENDENT PROJECT

Credit	Weight	Elective	Grade Level(s)
0.5	None		9, 10, 11, 12

Prerequisite Recommendation: Identified as a student with gifted academic abilities and teacher approval

COURSE DESCRIPTION

The student will demonstrate extensive knowledge in an area, topic or subject of his or her choice. This knowledge will be obtained through application of the higher-level cognitive skills (evaluation, synthesis and analysis). This option allows for flexibility and creativity as students pursue knowledge and experience with what they find most interesting. Possibilities are endless and may include but are not limited to writing a book of short stories or poetry, designing a comic book, writing music and performing it, conducting independent science research, or designing an invention to meet a need. The equivalency for a regular class with this amount of credit is 68 hours so when planning your project, please consider how you will successfully document the time requirement through your planning, preparation and project completion.

1070 TRANSITION

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0		9, 10, 11, 12

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

The Life Centered Education curriculum is designed to provide individuals with the important skills that they need to function successfully as productive works and independent, fulfilled individuals.

Fundamental daily living skills concepts include buying, preparing and consuming food, buying and caring for clothing and exhibiting responsible citizenship. Principle self-determination and interpersonal skills include communicating with others, making good decisions, developing social awareness and understanding disability rights and responsibilities. Primary employment concepts include seeking and maintaining employment and exhibiting appropriate employability skills. Frequent guest speakers are invited to share in their areas of expertise and various field trips are incorporated into the class. Teachers actively guide students through the course and provide multiple levels of aid and reinforcement at each step.

1071 ADVANCED TRANSITION

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0		9, 10, 11, 12

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

The Life Centered Education curriculum is designed to provide individuals with the important skills that they need to function successfully as productive works and independent, fulfilled individuals.

This course includes student-centered work with discussion on content key concepts. Units of study include daily living skills, self-determination, interpersonal skills, and employment skills. Key learning concepts consist of buying and caring for clothing, managing personal finances, demonstrating relationship responsibilities, developing interpersonal skills, communicating with others, developing social awareness, and understanding legal rights for people with disabilities. In addition, students will learn about exhibiting appropriate employment skills, and seeking, securing, and maintaining employment. Teachers actively guide students through the course and provide multiple levels of aid and reinforcement at each step.

1075 PROGRAMMATIC READING (DECODING) I

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0		9, 10, 11, 12

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

This course is designed for students with IEPs who require instruction in basic reading skills. The course uses multi-sensory, differentiated instruction in order to help readers understand how letters are linked to sounds (phonemes) to form letter-sound correspondences and spelling patterns. In addition, the course will help students learn how to apply this knowledge in their reading. Finally, specific learning strategies identified in the IEP are implemented.

1076 PROGRAMMATIC READING (DECODING) II

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0		9, 10, 11, 12

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

Similar to part I, this course is designed for students with IEPs who require instruction in basic reading skills. The course uses multi-sensory, differentiated instruction in order to help readers understand how letters are linked to sounds (phonemes) to form letter-sound correspondences and spelling patterns. This course will address more complex words. In addition, the course will help students learn how to apply this knowledge in their reading. Finally, specific learning strategies identified in the IEP are implemented.

1080 ENGLISH LANGUAGE DEVELOPMENT I

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.0		9, 10, 11, 12

Prerequisite Recommendation: Students identified as ELL and WIDA W-APT or ACCESS assessment results

COURSE DESCRIPTION

This course is designed for Entering Level English Language Learners who have received a cumulative score between 1 and 2 on the WIDA W-APT or ACCESS assessments. Students will develop foundational English language skills in the domains of Reading, Writing, Speaking, and Listening in alignment with the Pennsylvania English Language Proficiency Standards.

Note: This course is a replacement course for a student’s grade-level English course.

1081 ENGLISH LANGUAGE DEVELOPMENT II

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year	1.0		9, 10, 11, 12

Prerequisite Recommendation: Students identified as ELL and WIDA W-APT or ACCESS assessment results

COURSE DESCRIPTION

This course is designed for Beginning and Developing Level English Language Learners who have received a cumulative score between a 2 and 4 on the WIDA W-APT or ACCESS assessments. Students will develop foundational English language skills in the domains of Reading, Writing, Speaking, and Listening in alignment with the Pennsylvania English Language Proficiency Standards.

1090 AFFECTIVE EDUCATION (Semester)**1091 AFFECTIVE EDUCATION (Full Year)**

Credit	Weight	Elective	Grade Level(s)
1.0 – Full Year			
0.5 - Semester	1.0		9, 10, 11, 12

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

Class will focus on skills in the area of executive functioning (organizing, planning, study skills, problem solving, impulse control, etc.). Class will also cover topics in self-regulation/calming and dealing with anxiety and stress within life and the school setting. Proper diet/nutrition and exercise will be incorporated for self-regulation. Skills to be taught in this area will be relaxation techniques, perspective taking, problem solving, self-awareness and acceptance, time management, and changing negative thinking patterns. Part of the class will also be dedicated to applying the skills directly to assignments and experiences students are currently having within their other classrooms.

1090 AFFECTIVE EDUCATION

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0		9, 10, 11, 12

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

Designed for students with Individual Education Plans, this class provides direct instruction in the use of high level cognitive functions called executive functioning skills. These skills include, but are not limited to planning, organization, time management, working memory, metacognition, response inhibition, flexibility, task-initiation, and goal-directed persistence. In addition to understanding the neurological development of these skills, students will understand and practice specific strategies to strengthen deficits in these areas. In addition to instruction in executive skills, students will receive direction and coaching in the areas of self-awareness and self-advocacy with a the goal of independent application of strategies. A unit on understanding and using I.E.P.s is included in this course.

1096 EXECUTIVE FUNCTIONING SKILLS

Credit	Weight	Elective	Grade Level(s)
0.5 - Semester	1.0		9, 10, 11, 12

Prerequisite Recommendation: Student with an Individual Education Plan and case manager approval

COURSE DESCRIPTION

Designed for students with Individual Education Plans, this class provides direct instruction in the use of high level cognitive functions called executive functioning skills. These skills include, but are not limited to planning, organization, time management, working memory, metacognition, response inhibition, flexibility, task-initiation, and goal-directed persistence. In addition to understanding the neurological development of these skills, students will understand and practice specific strategies to strengthen deficits in these areas. In addition to instruction in executive skills, students will receive direction and coaching in the areas of self-awareness and self-advocacy with the goal of independent application of strategies. A unit on understanding and using I.E.P.s is included in this course.

CUMBERLAND PERRY AREA VOCATIONAL TECHNICAL SCHOOL

Cumberland Perry Area Vocational Technical School (CPAVTS) serves students from fourteen high schools in Cumberland, Perry, York, and Adams County. CPAVTS is an extension of your high school, offering intensive instruction in 22 career and technical programs. Students attend CPAVTS for half of their school day, taking courses in their technical program plus social studies. Students attend their sending high school for English, science, mathematics, physical education, and other graduation requirements.

Typically, students attend CPAVTS beginning in tenth grade. However, they will accept students in eleventh and twelfth grade if space permits. Students coming in eleventh and twelfth grade may not be able to complete all Program of Study requirements, but they will gain an advantage in the college and career world compared to a student who has not experienced any career and technical education program.

WHAT ARE THE ADVANTAGES FOR STUDENTS ATTENDING CPAVTS?

1. *Earn College Credit*

College in the High School Program

The College in High School (CHS) program, also called dual enrollment, allows high school students to take college classes while enrolled at CPAVTS during the regular school day. CHS is considered *dual enrollment* because students earn credits toward high school graduation and the college degree at the same time. Classes are taught by CPAVTS teachers who are qualified by Harrisburg Area Community College to teach these classes. The college credits are awarded by HACC, but the credits transfer to colleges and universities in the Commonwealth and do not require the student to enroll in a HACC program.

Program of Study (POS) College Articulation Agreements

Twenty one programs at CPAVTS are recognized by the Pennsylvania Department of Education as a “Program of Study”. Students in these programs have the opportunity to earn college credit at various post-secondary schools in Pennsylvania if they meet the following requirements:

1. Graduate from high school
2. Earn at least 2.5 GPA in your program courses
3. Achieve a score of “Advanced” or “Competent” on the NOCTI end-of-program exam
4. Successfully complete all tasks on the Program of Study task list

Suggested Course Sequence by the Pennsylvania Department of Education for Programs of Study For Students Enrolled in Career and Technical Programs:

<u>Grade 9</u>	<u>Grade 10</u>	<u>Grade 11</u>	<u>Grade 12</u>
English	English	English	English
Earth Science	Biology	Chemistry	Elective
Social Studies	Social Studies	Social Studies	Social Studies
Pre-Algebra or Algebra I	Algebra I or Geometry	Algebra II or Geometry	Additional Math

For additional information on Program of Study and which colleges are participating, go to www.techlinkpa.com and click the link for SOAR – Students Occupationally and Academically Ready.

2. Earn a Pennsylvania Skills Certificate

The Pennsylvania Skills Certificate was created by the PA Department of Education to recognize career and technical education students who have shown advanced skill achievement in their career and technical program. To earn the Pennsylvania Skills Certificate, students must achieve at the advanced level on the end of program NOCTI test. The test consists of two parts – written and performance. The written test covers factual knowledge, technical information, understanding of academic principals and problem solving related to the technical field. The performance test allows students to demonstrate their skills to industry professionals who proctor the exam.

3. Earn Industry-Recognized Certifications

CPAVTS have the opportunity to earn industry certifications which are specific to their career program. Examples include PA State Inspection certification for Auto Tech students and Certified Nursing Assistant certification for nursing students. A complete list of certifications is listed under each program description. During the 2012-2013 school year, 300 CPAVTS students earned at least one industry certification.

CAREER PATHWAYS AND PROGRAMS AT CPAVTS

<u>ARTS and TECHNOLOGY</u>	-	-	-	-	-	-	-	-	-	72
Advertising Art & Design										
Computer Networking										
Computer Programing										

<u>CONSTRUCTION and MAINTENANCE-</u>	-	-	-	-	-	-	-	-	-	73
Carpentry										
Electrical Construction and Maintenance										
Horticulture and Landscaping										
Heating/Ventilation/Air Conditioning/Refrigeration (HVAC-R)										
Masonry										

<u>HEALTH SCIENCES</u>	-	-	-	-	-	-	-	-	-	75
Dental Assisting										
Nursing										

<u>HUMAN SERVICES and HOSPITALITY</u>	-	-	-	-	-	-	-	-	-	76
Cosmetology										
Criminal Justice										
Culinary Arts										
Early Childhood Education										

<u>ADVANCED MANUFACTURING-</u>	-	-	-	-	-	-	-	-	-	77
Automation, Robotics, and Electronics										
Precision Machine Technology										
Welding										

<u>TRANSPORTATION and LOGISTICS</u>	-	-	-	-	-	-	-	-	-	78
Auto Collision										
Auto Technology										
Diesel Technology										
Logistics and Warehouse Management										

<u>CPVATS SENIOR ONLY ELECTIVE PROGRAM-</u>	-	-	-	-	-	-	-	-	-	79
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Additional information on all programs is available online at www.cpavts.org. The Cumberland Perry AVTS does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. For information regarding civil rights, grievance procedures, or access, contact the Administrative Director at 110 Old Willow Mill Road, Mechanicsburg, PA 17050, 717.697.0354, jbruhn@cpavts.org

ARTS & TECHNOLOGY

ADVERTISING ART & DESIGN

A large percentage of merchandising and advertising for modern promotion is done through the medium of Advertising Art and Design. The purpose of this course is to help prepare students for an entry-level job or to prepare the student to advance into post-secondary training at colleges and art schools. Throughout the program, students will maintain a portfolio to promote their work and talent when they graduate. The major emphasis is on the basic principles of design: color, development of skills, exploration of media, and Advertising Art and Design practices. Special emphasis is placed on manual illustration and layout skills in the area of art production, technical features of design, layout and composition, and color theory. Students will prepare graphic and advertising projects from the idea stage through to pre-press using the current Adobe Creative Suite software.

Prerequisite Recommendation: Successful completion of the Art test for the Advertising Art and Design program.

Industry Certifications
PrintED - Advertising

Related Occupations	Average Pay (in PA, 2016)
Multi-Media Artists & Animators	\$54,030
Commercial & Industrial Designers	\$44,160
Graphic Designers	\$45,360

COMPUTER NETWORKING

The Computer Networking prepares students to write and code instructions that control the operation of a computer. Students learn to operate microcomputer equipment including a scanner, install software, create web pages for the Internet using HTML, become efficient with the Microsoft Office application software and Windows 7/XP/2003 operating systems, and learn networking commands for both Windows 7 Server systems. The projects provide practical experience in organizing and compiling information that is used to solve problems, keep records, and provide other computerized services. Instruction includes organizing flowcharts to plan programming steps in sequence, writing and coding all instructions in the programming languages QBASIC, Visual Basic, and Java; testing the programs for accuracy, and adjusting for any errors.

Industry Certifications
Microsoft Tech. Associate - Networking Essentials

Related Occupations	Average Pay (in PA, 2014)
Computer User Support Specialists	\$20.96 per hour
Web Administrators	\$38.59 per hour
Computer Systems Analysts	\$37.09 per hour

COMPUTER PROGRAMMING

In Computer Programming, students learn how to write, develop, and test code for applications to be run on computer systems. Additionally, they will learn about analyzing and designing solutions for troubleshooting software issues. This program covers the following topics: understanding computer basics; interpreting logical expressions using Boolean Algebra; creating simple programs using algorithms; applying program analyses for evaluating algorithms and testing and debugging systems; and learning about computing practices, focusing on data structures and object-oriented program design. Emphasis will be placed on completing college-level course work. Credits may be earned through our Dual Enrollment agreement with Harrisburg University of Science and Technology.

Dual Enrollment Opportunities
Harrisburg University

Related Occupations	Average Pay (in PA, 2016)
Software Developers	\$92,260
Systems Software Developers	\$95,010
Computer Programmers	\$77,020

CONSTRUCTION AND MAINTENANCE

CARPENTRY

Carpenters construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms; building frameworks, including partitions, joists, studding, and rafters; wood stairways, window and door frames, and hardwood floors. They may also install cabinets, siding, drywall, and roll insulation. Students learn two types of carpentry work: rough and finish. Rough carpentry includes framing, boarding, sheathing, bracing, roofing, and studding. Finish carpentry includes the installation of finished flooring, stair work, siding, trim, wallboards, windows, and hardware. Students learn blueprint reading, estimation, material identification, the use of power and hand tools, framing, and the installation of trim and hardware.

Industry Certifications
OSHA 10
PBA Certification
NCCER

Related Occupations	Average Pay (in PA, 2014)
Carpenters	\$19.37 per hour
Construction Carpenters	\$19.70 per hour
Construction Laborers	\$15.36 per hour

ELECTRICAL CONSTRUCTION AND MAINTENANCE

Electricians install, maintain, and repair electrical wiring, equipment, and fixtures. They work in accordance with the National Electric Code. They install & service street lights, intercoms, and electrical control systems. They install circuits, switches, conduits, circuit breakers, and other electrical devices. Students use tools and equipment safely to install electrical systems on a construction site, connect and disconnect electrical equipment, determine proper installation and operation of electrical work, apply procedures used in interior circuits and outlets, and troubleshoot electrical malfunctions. Special emphasis is placed on the National Electric Code Specifications used in residential, commercial, and in industrial electrical construction projects.

Industry Certifications
OSHA 10
PBA Certification
Green Environment

Related Occupations	Average Pay (in PA, 2014)
Electricians	\$24.07 per hour
Electrical and Electronics Repairers	\$23.79 per hour
Electrician's Helper	\$13.08 per hour

HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION

Heating, Ventilation, Air Conditioning, and Refrigeration includes the fundamentals of installation, repair, servicing, and maintenance of equipment and parts in the HVAC/R field. Students read blueprints and wiring diagrams, identify and use hand, power and specialty tools. All aspects of copper tubing, copper fittings, pipe, pipe fittings, PVC, PEX, and Gastite are learned, and flaring, bending soldering, brazing, identifying, pipe cutting, and assembly are performed. Students learn about plumbing, sheet metal, and duct board techniques. Electricity is a large part of the field. Installation, troubleshooting, repair and design of AC, indoor air quality, air filtration, humidification, dehumidification, and make up air are part of this program. Heat pumps, geo-thermal applications, heating, electric, oil, gas, steam, and hot water are covered. Students use trainers and equipment to diagnose, disassemble, and reassemble systems, and ensure efficient operations.

Industry Certifications
OSHA 10
PBA Certification
EPA Section 608

Related Occupations	Average Pay (in PA, 2014)
Plumbers	\$24.22 per hour
Heating/Air Conditioning Mechanics/Installers	\$21.33 per hour
Pipefitters and Steamfitters	\$24.22 per hour

HORTICULTURE AND LANDSCAPING

Horticulture & Landscaping students learn skills in floral design, landscaping, greenhouse management, plant identification, bedding production, and pesticide safety. Students learn skills for a retail florist, wedding consultant, floral designer, and manager. Students learn residential and commercial landscaping, and maintenance. Students learn to care for flowers, shrubs, and trees in greenhouses and outdoors, to display products, and to market them. Students grow ornamentals, bulbs, and bedding plants. Topics include plants, transplanting, identifying and controlling nutrient deficiencies, disease, propagating, fertilizing, and selling.

Industry Certifications
OSHA 10

Related Occupations	Average Pay (in PA, 2014)
Landscaping & Groundskeeping Workers	\$12.80 per hour
Agricultural Technicians	\$17.19 per hour
Groundskeeping Supervisors	\$24.32 per hour

MASONRY

Masonry teaches the fundamentals of working with brick and block. Students learn brick and block laying, mortar mixing, scaffold construction, building construction, and the proper use of masonry tools. They read blueprints and follow builders' specifications; check alignment and positioning by using a dry course; check for horizontal or vertical straightness by using a mason's level; gauge and plumb lines; and use story gauge rods to check work. Mortar mixing and spreading ensure accurate spacing of the joints. Students learn to safely use trowels, jointers, rulers, squares, masonry saws, brick hammers, mason levels, and gauge lines.

Industry Certifications
OSHA 10
NCCER
PBA Certification
Rough Terrain Forklift

Related Occupations	Average Pay (in PA, 2014)
Stonemasons	\$16.67 per hour
Brickmasons	\$22.28 per hour
Cement Masons & Concrete Finishers	\$21.14 per hour

HEALTH SCIENCES

DENTAL ASSISTANT

Dental Assistant students learn laboratory skills, dental x-rays, dental impressions, pour study models, assisting the dentist chair side, patient care in office, hospital and long term care settings. Students will job shadow in a dental office.

Industry Certifications
CPR Professional
First Aid
AED

Related Occupations	Average Pay (in PA, 2014)
Dental Assistant	\$15.78 per hour
Dental Laboratory Technicians	\$17.18 per hour
Dental Hygienists	\$29.20 per hour

NURSING

Nursing students learn personal hygiene, instrument and equipment identification, telephone training, correspondence and record keeping, nursing procedures, anatomy, pharmacology, as well as infection control, standard precautions, sterilization and OSHA standards. Students may participate in a clinical experience with patients through affiliation with Holy Spirit Hospital, Bethany Village Retirement Center, as well as opportunities to shadow or intern in medical offices.

Industry Certifications
CNA
CPR Professional
Red Cross CPR
AED
DPW

Related Occupations	Average Pay (in PA, 2014)
Nursing Assistants	\$13.14 per hour
Occupational Therapy Aides	\$13.68 per hour
Home Health Aides	\$9.67 per hour

HUMAN SERVICES and HOSPITALITY

CULINARY ARTS

Culinary Arts offers a broad range of skills and knowledge concerning the selection, preparation, and handling of foods. Skill development includes safety and sanitation, dining room service, preparation of food, buffet service, meat cutting, baking, store room procedures and basic management skills. Unlike the home economics courses offered by most general high schools, the instruction and on-the-job training will be conducted in a fully equipped cafeteria.

Industry Certifications
ServSafe
OSHA 10

Related Occupations	Average Pay (in PA, 2014)
Institution & Cafeteria Cooks	\$12.25 per hour
Restaurant Cooks	\$11.44 per hour
Butchers & Meat Cutters	\$14.90 per hour

COSMETOLOGY

Cosmetology students learn hair care skills, cutting, styling, relaxing, braiding, coloring, waving, and styling wigs, care of hands and nails, skin, and makeup artistry. Students practice these techniques on mannequins and are given clinical experience by applying these skills in the cosmetology clinic. Emphasis is placed on sterilization, anatomy, and chemical reactions to cosmetics, and customer relations.

Industry Certifications
PA Cosmetology License

Related Occupations	Average Pay (in PA, 2014)
Hairdressers, Hairstylists & Cosmetologists	\$11.17 per hour
Manicurists & Pedicurists	\$9.09 per hour
Makeup Artists (Theatrical & Performance)	\$22.70 per hour*

*National Average; Not enough employment in PA to average

CRIMINAL JUSTICE

Criminal Justice students learn administrative procedures, vehicle code and accident investigation, crimes code and criminal investigation, prevention of crime, and laboratory procedure. Simulated activities develop skills in procedures used in police patrol, criminal investigations, accident investigation, report writing, use of Crime Code and Pennsylvania Vehicle Code, first aid and firearms training.

Industry Certifications
NIMS 100
NIMS 200
NIMS 700
NIMS 800
First Aid

Related Occupations	Average Pay (in PA, 2014)
Correctional Officers & Jailers	\$22.64 per hour
Police Patrol Officers	\$28.77 per hour
Baliffs	\$10.22 per hour

EARLY CHILDHOOD EDUCATION

Early Childhood Education teaches lesson planning, preparing nutritional snacks, instructional materials, schedules, and curriculum plans. Parent involvement, enrollment, safety/health factors, and discipline are explored. Part of the program covers child development and growth patterns of the preschool child. Students apply their skills in the preschool program as students supervise the nursery, schedule child activities, take attendance, greet children, and plan art, music, science, and indoor/outdoor play lessons and activities.

Industry Certifications
Child Development Associate
Infant/Child CPR
Adult CPR
First Aid

Related Occupations	Average Pay (in PA, 2014)
Childcare Workers	\$9.27 per hour
Social & Human Services Assistants	\$12.92 per hour
Preschool Teachers (Non-Special Education)	\$11.95 per hour

ADVANCED MANUFACTURING

AUTOMATION, ROBOTICS, and ELECTRONICS

Automation, Robotics and Electronics (also commonly called "Mechatronics" or "Electromechanical Technology") is a three-year program that prepares students for employment and for continued education. Students will learn to design, install, troubleshoot, and repair today's modern automation, robotic, and industrial equipment. Instructional topics include:

- Industrial Motor Controls
- Robotics and Electronics
- Programmable Logic Controls (PLCs)
- Mechanical Power Transmission Systems
- Fluid Power Systems/Hydraulics/Pneumatics
- Blueprints and Schematics
- Electricity and Electrical Systems
- A/C and D/C Circuitry

*AUTOMATION, ROBOTICS, and ELECTRONICS IS A NEW PROGRAM IN 2019-2020
CONTACT CPAVTS FOR MORE INFORMATION*

PRECISION MACHINE TECHNOLOGY

Precision Machine Technology prepares students to work blueprints and how to setup and operate hand-operated machinery, computers, and computer controlled machinery. The course requires no heavy lifting. Students work with metals, plastics, carbides, composites and acrylics, hand tools, machinery and computers. They participate in field trips to work sites.

Industry Certifications
OSHA 10 7 Different NIMS Certifications

Related Occupations	Average Pay (in PA, 2014)
Metal Pourers & Casters	\$17.41 per hour
Multiple Machine Tool Setters, Operators & Tenders (Metal & Plastic)	\$28.77 per hour
Mechanical Door Repairers	\$17.22 per hour

WELDING

Welding includes oxyacetylene, AC/DC Arc welding, and semiautomatic MIG, plasma cutting, and TIG welding systems, and use hand tools, shears, forming and shaping machines, drill presses and metal cutting saws. Students plan, layout, set up and operate welding, brazing, and cutting equipment. They use oxyacetylene welding light and heavy gauge metals in all positions and shielded metal arc welding in all positions. Students read blueprints, identify metal properties, types and uses of electrodes and welding rods, electrical principles, and welding symbols. They use manuals and specification charts and apply the welding standards established by the American Welding Society.

Industry Certifications
ServSafe OSHA 10

Related Occupations	Average Pay (in PA, 2014)
Boilermakers	\$24.10 per hour
Welders, Cutters & Welder Fitters	\$18.06 per hour
Structural Iron & Steel Workers	\$21.90 per hour

TRANSPORTATION and LOGISTICS

AUTOMOTIVE COLLISION TECHNOLOGY

Automotive Collision Technology provides students with training to repair cars and trucks. Instruction includes repair and replacement to restore a car or truck to good condition. Students operate hydraulic jacks, and use pry bars, dolly blocks, and mallets for dent removal, learn metal finishing by filling the area with plastics, and grinding and sanding until smooth. Students replace and install new sections, weld panels, braise, and solder. Surfaces are prepared and painted. Students install trim and glass, use gauges for frame straightening, and estimate repair service.

Industry Certifications
SP/2 EPA Sec. 609 PA DOT Cat 1 Safety PA Emissions

Related Occupations	Average Pay (in PA, 2014)
Automotive Body & Related Repairers	\$18.21 per hour
Painters (Transportation Equipment)	\$21.62 per hour
Automotive Service Technicians & Mechanics	\$16.96 per hour

AUTOMOTIVE TECHNOLOGY

Automotive Technology prepares students to diagnose and repair suspension, steering, brakes, electrical and electronics systems, heating and air conditioning, and engine performance, manual and automatic drive train/transaxles. This program is ASE certified by NATEF.

Industry Certifications
PA DOT Cat 1 Safety PA DOT Cat 1 Inspection PA Emissions

Related Occupations	Average Pay (in PA, 2014)
Electronic Equipment Installers & Repairers (Motor Vehicles)	\$12.96 per hour
Automotive Service Technicians & Mechanics	\$16.96 per hour
Automotive Specialty Technicians	\$16.96 per hour

DIESEL TECHNOLOGY

Diesel Technology involves the maintenance, servicing and repair of light and heavy industrial construction and transportation equipment. Instruction centers on diesel trucks, graders, high lifts, and farm machinery. Students are trained in electrical systems, turbo chargers, engine speed governors, and other components. Students learn hydraulics, power trains, adaptation of diesel power to industrial equipment, oxyacetylene and AC/DC welding operations.

Industry Certifications
PA DOT Cat 1 and 3 Safety PA DOT Cat 1 and 3 Inspection 4 Different ASE Certifications 4 OSHA 10 EPA Sect. 609

Related Occupations	Average Pay (in PA, 2014)
Industrial Machinery Mechanics	\$19.61 per hour
Transportation Vehicle, Equipment & System Inspectors	\$35.02 per hour
Industrial Machinery Mechanics	\$21.97 per hour

LOGISTICS AND WAREHOUSE MANAGEMENT

Logistics & Warehouse Management includes hands-on aspect of operating a distribution center. Students learn ordering, control of goods received, efficient accessible storage, and proper distribution of materials. Recordkeeping and computer entry play a large part in the program. It also includes organization, inspection, accounting, receiving, and shipping. Students learn to use forklifts, elevators, rollers, or conveyor belts for loading, unloading, or placement of supplies in storage areas. Students work in a distribution center which stores in excess of \$100,000 in merchandise a year.

Industry Certifications
OSHA 10

Related Occupations	Average Pay (in PA, 2014)
Laborers & Freight, Stock & Material Movers	\$13.24 per hour
Shipping, Receiving & Traffic Clerks	\$15.29 per hour
First Line Supervisors of Transportation & Material-Moving Machine & Vehicle Operators	\$27.16 per hour

CPAVTS SENIOR-ONLY ELECTIVE PROGRAM

The goal of the CPAVTS Senior-Only Program is to offer basic instruction in areas of personal interest and to provide entry level skills for employment. Each course is offered for one semester, one hour each day.

Due to the logistics of travel and schedules, each course will be offered to meet the needs of the students within reasonable limits. Students will be permitted to drive to CPAVTS with their high school administrator's permission.

Forklift Training and Certification

Description: Training will be provided on five types of forklifts to learn how to load and unload trailers and to move and stack inventory within a warehouse.

Length: One semester for one hour per day.

The time of the class is tentatively set from 8:00 – 9:00 **or** 2:00 – 3:00, based on participation.

Employment Compensation and Opportunities: Entry level pay ranges from \$10 to \$14 per hour.

Floral Design and Arranging

Description: Training will be provided in floral design and in the creation of arrangements. Students will learn the basics and apply the knowledge to the construction of corsages, boutonnières, and centerpieces.

Length: One semester for one hour per day.

The time of the class is tentatively set from 8:00 – 9:00 **or** 2:00 – 3:00, based on participation.

Employment Compensation and Opportunities: Entry level pay usually begins at minimum wage.

Electronics Technology

Description: Training will be provided in basic electronics, use of electronic equipment, and in the basics of building a programmable robot.

Length: One semester for one hour per day.

The time of the class is tentatively set from 8:00 – 9:00 **or** 2:00 – 3:00, based on participation.

Employment Compensation and Opportunities: Entry level pay usually begins at approximately \$10 per hour.

Masonry

Description: Training will be provided in laying brick and block.

Length: One semester for one hour per day.

The time of the class is tentatively set from 8:00 – 9:00 **or** 2:00 – 3:00, based on participation.

Employment Compensation and Opportunities: Entry level pay usually begins at approximately \$10 per hour.