

**MINERSVILLE AREA
JUNIOR - SENIOR HIGH
SCHOOL**



**COURSE SELECTION
GUIDE**

2017-2018

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COURSE DESCRIPTION BY DEPARTMENT

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- BUSINESS/COMPUTER SCIENCE
- ENGLISH
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- HEALTH & PHYSICAL EDUCATION
- HOME ECONOMICS
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- SCIENCE
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- VOCATIONAL EDUCATION

MISSION STATEMENT

It is the mission of the Minersville Area School District, in conjunction with dedicated parents and community, to develop in students the desire to be life-long learners. By providing a safe educational environment, a dedicated staff, and a curriculum designed to challenge the diverse talents and needs of students, the district can achieve this goal and provide students with the knowledge and skills necessary to succeed in changing society.

BOARD OF SCHOOL DIRECTORS

Mr. Albert Wank, President
Mr. Michael Naradko, Sr., Vice-President
Ms. Gretchen Ulmer, Secretary
Mr. Albert D. Marazas, Treasurer
Mr. Robert Keifer
Mr. Scott Hunyara
Mr. Kevin Wigoda
Mr. Christopher Bentz
Ms. Sarah Newton

CONTACT NAMES AND PHONE NUMBERS

Superintendent	Mr. Carl McBreen	570-544-1400
Principal	Mr. James Grabusky	570-544-1400
Vice Principal	Mrs. Nannette Bentz	570-544-1400
Counselor	Ms. Annie Buzalko	570-544-1400
Counselor	Mrs. Rachelle Jones	570-544-1400
Guidance Secretary	Mrs. Heidi Hashin	570-544-1400

A MESSAGE FROM THE PRINCIPAL

To Students and Parents:

The staff of the Minersville Area Junior – Senior High School is committed to providing our students with academic experiences full of challenges and rewarding opportunities. This curriculum guide is the product of the efforts of teachers, guidance and administration. The faculty has spent many hours adjusting and readjusting their curriculum in order to provide all students with a solid and fruitful learning experience.

The State of Pennsylvania requires all school districts to participate in the Pennsylvania System of School Assessments (PSSA) and The Keystone Exam that currently assess Algebra I, Biology and Literature. The State of Pennsylvania requires every student to demonstrate proficiency in Algebra I, Biology and Literature for the graduating class of 2019 and beyond. These tests measure competency in basic academic subjects. This high school has made many revisions to our curriculum to better enable our students to meet or exceed these state standards. Students who fail to attain a rating of “Proficient” will be scheduled for additional courses in the area(s) of academic need.

Planning your program of study involves making important decisions. Of course, you are not alone in making these significant choices. Our counselors, teachers, and administration will be available to answer any questions that arise. If you choose wisely and work to your ability, you will graduate with the knowledge needed to become a productive and responsible citizen.

Sincerely,



James M. Grabusky
Minersville Principal

DESCRIPTIONS OF CURRICULA

ADVANCED PLACEMENT (AP)

Advanced Placement courses are taught at the college level. They afford advanced eleventh and twelfth grade students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination and if they attend one of many colleges and universities which recognize students' participation in the College Board's Advanced Placement Program. AP courses will have a weight of 1.10 if a student takes the AP exam. Maximum number of AP courses in the same year should be 2. To enroll in an AP course, it is recommended students have a grade point average of 85% or higher in the pertinent subject matter and in any other prerequisite courses and the recommendation of the most recent instructor in the academic discipline.

COLLEGE PREPARATORY

This program is designed to meet at least minimum requirements for college acceptance. These courses will prepare our students for their future and afford them the knowledge necessary to continue their education if they so desire. Students in the College Prep curriculum must take at least three years of college prep level math (CP Algebra I, CP Algebra II and CP Geometry). Electives should be carefully selected to satisfy the entrance requirements at the colleges to which a student is selecting admission. Students in the College Prep Curriculum must take two years of the same language. Most College Preparatory courses are weighted 1.05.

APPLIED

The Applied program is designed to permit flexibility for those students who have not defined their specific post-graduate plans or who plan to enter the job market upon graduation. This program will satisfy the admission requirements for some post high school institutions such as trade or technical colleges.

VOCATIONAL EDUCATION

The Vocational Education program begins in the 10th grade. This program of studies enables students to enhance skills in the vocational and technical fields. The program allows students to attend the Schuylkill Technology Centers to pursue their training. Successful completion of the program can lead to direct employment in the trade and technical fields. The program also allows students to pursue advanced programs of studies at a 2 year or 4 year degree program.

GRADUATION CREDIT REQUIREMENTS

English	4.0 Credits
Social Studies	4.0 Credits
Mathematics	3.0 Credits
Science	3.0 Credits
P.E.	1.0 Credits
Health	0.5 Credits
Electives	8.5 Credits
(includes Arts & Languages)	

*All students must take English, Math, Science, and Social Studies every year

*Students may be required to take PSSA Prep classes as determined by scores, teacher recommendation, and administrative staff.

24 Minimum to Graduate

PROMOTION REQUIREMENTS

- GRADE 7** A student must complete 5.0 credits including English.
- GRADE 8** A student must complete 5.0 credits including English.
- GRADES 9-12** A student must complete 6.0 credits including English and History.

HONOR ROLL REQUIREMENTS

Minersville Area Jr.-Sr. High School has a three-tiered honor roll system:

1. Distinguished Honors – A student must have all “A’s” in major subjects and nothing lower than a “B” in a minor subject. A student must have a minimum of three majors.
2. High Honors – A student must maintain all “A’s” or “B’s” in both major and minor subjects.
3. Honors – A student must have at least a “B” in all major subjects and have no more than one “C” in a minor subject.

*A major course is a full credit course in English, Social Studies, Math, and Science. All other full credit and semester credit courses are considered minor courses.

GRADING SYSTEM

<u>Percent Range</u>	<u>Grade Equivalent</u>	<u>Report Card Grade</u>
90 - 100	(A)	Percentage earned
80 - 89	(B)	Percentage earned
70 - 79	(C)	Percentage earned
60 - 69	(D)	Percentage earned
0 - 59	(F)	Percentage earned

CHANGING COURSES

All course changes require parental request, counselor recommendation and approval of the principal. Requests to drop/add a full year course or semester course must be made during the first week of each semester. All schedule changes will need to be done at this time.

WEIGHTED COURSES

In order to bring our grading in line with other weighted systems throughout the country and in an attempt to recognize the academic efforts of our motivated students, Minersville has decided to incorporate the following weighted system into its grading:

College Prep and Select 3 rd & 4 th year courses	average X 1.05
Advanced Placement (including exam participation)	average X 1.10

By incorporating these weights into our grading policy, we will be allowing our students to be equally recognized and compared to other students by all colleges and universities.

WEIGHTED COURSES

- AP Literature
- AP Biology
- AP Calculus
- College Prep Courses
- Anatomy & Physiology
- Math Analysis
- Trigonometry/Pre-Calculus
- German III, IV
- Spanish III, IV

Note: An AP courses may be substituted for the required English, Math and/or Science course for that academic year in the junior and senior year.

CLASS RANK

Class Rank is an indicator of how well a student has done in their classes and the intensity or academic difficulty of their schedule. Class Rank is based on a student's grade point average.

GIFTED PROGRAM

All students within the district who are thought to be gifted may be referred for evaluation. The determination of mentally gifted must include a multi-disciplinary assessment by a certified school psychologist. The following indicators may suggest a referral to be in order:

1. I.Q. Scores – The most recent I.Q. score must be 130 or above. Confidentiality of information obtained through individualized testing is protected.
2. Achievement Test Scores – The scores should fall in the 95-99 percentiles.
3. Rates of acquisitions and retention of subject matter evaluated is superior compared to peers.
4. Class Grade Averages – Demonstrated superior achievement in grade level subject area(s).
5. Gifted Rating Scales: Completed by Parents and Teachers.

A parent may request a multi-disciplinary evaluation at any time, but there is a limit of one request per school term. Contact the principal, guidance counselors, or the gifted support teacher for more information.

SPECIAL EDUCATION SERVICES

Vision Statement

All students will be provided Equality of Educational Opportunities in a cooperative, inclusive environment.

Inclusive Practices

Minersville School District has expanded its inclusive practices. This positive change supports a diverse student body at all grade levels and provides a least restrictive environment for students with disabilities by using cooperative learning, differentiated instruction and co-taught classes to enrich and expand learning opportunities and options for the benefits of all students. Our goal is always to ensure that all students receive focused and intensive instruction to support their needs to be productive citizens in our ever changing global community.

KEYSTONE EXAMS

The Keystone Exams are end-of-course assessments designed to assess proficiency. Currently, Keystone exams are being administered in the subject areas of Algebra I, Literature, and Biology. The Keystone Exams are one component of Pennsylvania's new system of high school graduation requirements. Keystone Exams will help school districts guide students toward meeting state standards - standards aligned with expectations for success in college and the workplace. In order to receive a diploma, students must also meet local district graduation requirements. In addition, the Pennsylvania Department of Education is requiring proficiency on Keystone Exams as a state graduation requirement beginning with the Class of 2019. Detailed information about the Keystone Exams can be found at:

<http://www.pdesas.org/Assessment/Keystone#>

Club, Enrichment and Focus

Minersville is proud to offer a variety of enrichment and focus activities to our students that will meet the needs and interest of our students and help prepare for college and careers after high school. Unless otherwise noted, each course is one day per week during our club, enrichment and focus time. Course listing are subject to availability.

Academic League – Students will practice skills necessary to compete in county events.

Advanced Art Exploration - This offering is designed for any student that has an interest in any type of art that would like to share with others of similar interest. Students may choose to participate in project's that are being offered at that given time. Materials for projects will have to be supplied by the student's.

AP Biology Exam Prep - This is a block of time for students enrolled in the AP Biology course. Time will be spent problem solving, integrating technology and preparing for the AP Exam.

AP Calculus Exam Prep - This is a block of time for students enrolled in the AP Calculus course. Time will be spent problem solving, integrating technology preparing for the AP Exam.

AP Literature Exam Prep - This is a block of time for students enrolled in the AP Literature course. Time will be spent problem solving, integrating technology preparing for the AP Exam.

Band - Band member practice.

Chess Club - Chess Club is an opportunity for students of all levels to participate in this game of strategy. This course offering is for beginner players who want to learn the game to the advanced player.

Choir – Choir member practice.

Creative Writing - Students can use this time to leisurely read or write quietly.

Digital Photography - Students discuss photography as a contemporary art medium. Interested in photography and want time to experiment with various techniques and photography programs? This period focuses on photography basics, allows time to work on a digital portfolio. No past photography experience required.

Drivers Education (Grades 10-12 only, usually taken in the sophomore year). Driver education emphasizes personal and social problems related to the safe and efficient movement of traffic. Major aims are to emphasize the desirable role of the pedestrian and driver in traffic and to develop the knowledge and attitudes needed for safe use of traffic facilities.

English as a Second Language - (ESL) Students receive individual education in learning English as their second language through a variety of techniques. Progress monitoring is ongoing and students participate in WIDA testing.

Envirothon – Student will engage in hands on learning activities to prepare them for a county wide competition. Wildlife, aquatics, forestry and soils.

Gifted Progress Monitoring - Opportunity for students to meet with the gifted support teacher to conference about enrichment opportunities and grades.

Honor Card – With parent permission, students who have passed all three keystone exams, have no attendance or discipline issues may use this period of time.

Keystone Remediation Self Study (Algebra, Biology and Literature) – Students who just missed achieving a proficient score on a keystone exam may select a self-study option instead of being enrolled in a Keystone Prep course. The self-study will occur during our Club, Enrichment and Focus time, thus allowing a student to select an elective. Individual data analysis on a student’s test score will be utilized to direct student research. Students are required to complete a presentation addressing specific assessment anchors based upon their individual test score. Parent approval is require.

Keystone Remediation (Algebra, Biology and Literature) - This course is for students who would benefit from additional instruction to assist them in achieving a proficient score on a keystone exam. Students are enrolled in this course in their third year of Keystone instruction. Year one is a full keystone course, year two is a semester prep course and year three is keystone remediation. (2 days per week)

Math Club Students will practice solving mathematical problems in preparation for upcoming math competitions.

Miner Pride - Focus on creating activities within the school environment that enhance student relationships and school spirit.

Peer Tutoring – Peer tutoring is offered in a variety of subjects. Math, Science and ELA course tutoring is monitored by a content area teacher.

Progress Monitoring & IEP support - Students will meet with teachers to conduct weekly, biweekly, progress monitoring data. Students will work on math fluency and calculation probes, reading fluency and comprehension probes as well as collection of writing samples. Based on data collection specific interventions and adjustment of IEP goal may be done during this time period. Time may also be used to conduct required achievement testing for Reevaluation Reports. This is also an opportunity for students to meet with their case managers to conference about grades and missing assignments. Frequency of meetings is on a case by case basis.

Public Speaking – Student time will be spent working on scripts and preparing for speeches.

Students Against Destructive Decisions (SADD) – Students will meet to discuss destructive decisions and plan school activities to educate and support positive decisions.

School Newspaper - Published monthly, students in grades 9-12 would get an assignment to cover and will submit their articles for editing. The editors would be responsible for making the final layout.

School Store Students will have the opportunity to run a business through the Battlin Miner school store. Duties will include selecting and ordering merchandise, sales and inventory control and creating and maintaining an online store through the district website.

Silent Sustained Reading - Students can either read books for fun or for a class. Students are expected to read silently for the entire period

Spanish Club - Explore numerous aspects of the Spanish-speaking world.

Speech and Debate - Students will experience and use techniques involved in both formal and informal speaking situations. They will be introduced to the various purposes of speaking to an audience: to inform, to convince, to entertain, to impress, and to motivate. Methods of presentation will involve impromptu, extemporaneous, and scripted speeches as well as debate and panel discussions. Instruction will be provided in gathering material necessary for some of the speech situations.

Student Assistance Program Meetings and Mentoring - Students must be placed into this section and may not choose it as an activity.

Sucessmaker – This course is required for all 7th and 8th grade students. Technology is utilized to individualize instruction and practice of basic math and ELA skills. (4 days a week)

Yearbook- Students participating in development of the yearbook can use this time to work in the on the publication and discuss upcoming deadlines.

COURSE DESCRIPTION BY DEPARTMENT

ART DEPARTMENT

ART 8 (601)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
9 weeks	5 periods per week	None	.25	8

This is a 9 week introductory course, focused on the 7 elements of Art: Line, Value, Color, Texture, Shape, Form, and Space. Projects may include 2D and 3D works of art using various media. By studying the elements of art, students will be inspired to create works that focus on each element to develop a more sophisticated artistic composition.

ART 10 (602)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	10

This is an 18 week, one semester course, focused on the elements of art (line, value, color, texture, shape, form, and space) and the principles of design (balance, proportion, rhythm, emphasis, and unity). Students will be exposed to different art media and will experience a variety of projects, in order to explore their artistic capabilities through creativity and originality.

ART 11/12 (603)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	11 & 12

This is an 18 week, one semester advanced course, focused on art critiquing and understanding art. Many techniques and media will be explored through two and three dimensional works of art. Themes will be explored in depth, with the possibility of independent studio work and portfolio preparation.

BUSINESS/COMPUTER SCIENCE DEPARTMENT

BASIC KEYBOARDING (7) (610)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
9 weeks	5 periods per week	None	.25	7

This course strives for student accuracy and speed and the utilization of the correct touch typing technique. The students will use the computer keyboard and various software programs.

DIGITAL CITIZENSHIP (8) (611)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.25	8

A digital citizen is anyone who uses digital tools such as computers, cell phones, or the Internet in their work, school, or for recreation. Just like citizens of a city have to adopt rules and standards of behavior in order to live together, those of us in the digital world should do the same. Students will learn how to navigate, evaluate, create, and critically apply information by using a wide variety of digital technologies. This course is designed to teach students how to appropriately use cutting edge and future technologies in a rapidly changing world. The class will be based almost completely online, utilizing Web 2.0 technologies.

INTRO TO WORD PROCESSING/SPREADSHEETS (9) (612)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	9

Students will be using Microsoft Office to learn the basics of word processing skills such as editing, formatting, setting margins, setting tabs, and sorting to create documents. The course will also introduce helpful word features such as spell checker, thesaurus, and find and replace. In addition students learn about desktop publishing, creating columns, drawing graphics, WordArt, clipart, borders and shading techniques. Students will learn how to increase efficiency using word templates and wizards. Students will also be using Microsoft Excel to learn basic spreadsheet concepts, change appearance of worksheets, use worksheet formulas, and function formulas.

ADVANCED WORD PROCESSING (613)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	Intro Word/ Spreadsheets	.50	10 - 12

Students will use Microsoft Word software to create a variety of documents. Advanced techniques such as mail merge, customizing tables, creating charts, formatting columns and sections, and formatting graphics will be explored. Students will work with multiple and long documents. They will also be creating forms, customizing toolbars and templates, and creating indexes and table of contents. Students will be designing documents that are school-related (such as a research paper), business related (such as a newsletter, form letters, mail merge), and documents one might use for personal use (such as a resume and cover letter). Using the skills presented in this course, students will be required to design other documents using enhanced features and desk top publishing skills. Upon successful completion of the course, students will be prepared to complete the Microsoft Certification Application Specialist Exam.

ADVANCED SPREADSHEETS (614)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	Intro Word/ Spreadsheets	.50	10 - 12

Students will use Microsoft Office software to create a variety of documents. Students will be applying advanced formats to worksheets and charts, printing workbooks and formulas, using data lists, and filtering and extracting data. They will also be using advanced techniques such as PivotTables, macros, importing and exporting data, using templates, and working with multiple worksheets and workbooks. Upon successful completion of the course, students will be prepared to complete the Microsoft Certification Application Specialist Exam.

MULTIMEDIA DESIGN (615)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	Advanced Word Processing	.50	11 - 12

This course will teach students how to efficiently use Microsoft PowerPoint as both a presentation and animation tool. Students will also explore the Adobe Creativity software suite designed for working with graphics and animation. We will use the software Adobe Photoshop to edit and manipulate photographs and graphics. We will use the use of Adobe Flash to animate graphics. Students can experiment with other Adobe software available within the software to create other effects. Upon successful completion of the course, students will be prepared to complete the Microsoft Certification Application Specialist Exam.

WEB PAGE DESIGN (620)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	Advanced Word Processing	.50	11 - 12

This course will provide students with the knowledge required to apply Web design practices and tools using Adobe Creativity Suite software. Focus will be on professional design elements, layout, navigation, and interactivity of web pages.

ACCOUNTING I (616)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 Weeks	5 periods per week	None	1.00	11-12

Students will learn the basic bookkeeping cycle of businesses organized as a proprietorship and a partnership. Students will learn to journalize entries to record sales, purchases, cash receipts and payments, and accounts receivable and payable. Entry-level accounting skills, such as journalizing, posting, making adjusting entries, and preparing financial statements will be demonstrated and practiced.

YES PROGRAM (617)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	None	1.00	12

This course is a compilation of real world skills and assessments driven by industry that focuses on skills necessary to build a personal portfolio of success. The YES curriculum includes writing skills, resume writing, Interview skills, team effectiveness, conflict resolution, problem solving, time and stress management, substance abuse, active listening, personal finance and career path exploration.

TRANSITION SKILLS I (618)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	Individual Education Plan	0.50	10

This course is designed to assist students in Grade 10 to begin making plans for transitioning from high school to employment or post-secondary education. Basic skills and objectives to be covered include career assessments, employment vocabulary, and basic finance skills.

TRANSITION SKILLS II (619)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	Individual Education Plan	1.00	11

This course is designed to assist students in Grade 11 in making plans for transitioning from high school to employment or post-secondary education. Skills and objectives to be covered include workplace skills and attitudes, interactions with others, habits of wellness, self-advocacy, resume writing, interviewing skills, job application preparation, basic finance skills, banking and money management strategies, accessing community resources, computer and internet skills, conflict resolution and communication skills.

ENGLISH DEPARTMENT**READING 7 (100)**

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	None	1.00	7

This course emphasizes strengthening basic listening, speaking, reading writing and grammar skills. Specific course content includes written and oral skills that apply to literacy comprehension and analysis. Reading skills will be developed through selections including the short story, poetry, drama and the novel. Spelling and vocabulary skills are utilized in the writing proponents of the course. Speaking skills are developed through informal discussion, reading literary passages aloud and oral book talk. Exercises with text dependent analysis and differentiate instruction will be utilized to assist in preparing students for the 7th grade English Language Arts PSSA exam.

READING 8 (101)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	None	1.00	8

This course emphasizes strengthening basic listening, speaking, reading writing and grammar skills. Specific course content includes written and oral skills that apply to literacy comprehension and analysis. Reading skills will be developed through selections including the short story, poetry, drama and the novel. Spelling and vocabulary skills are utilized in the writing proponents of the course. Speaking skills are developed through informal discussion, reading literary passages aloud and oral book talk. Exercises with text dependent analysis and differentiate instruction will be utilized to assist in preparing students for the 8th grade English Language Arts PSSA exam.

ENGLISH 7 (102)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	None	1.00	7

In this comprehensive program, students are challenged to hone their writing skills through a practical study of basic grammar, spelling, vocabulary, and usage. Students will read and analyze selected examples of fiction and non-fiction. Students will receive instruction in text dependent analysis and essay writing. Students will practice both multiple choice and constructed response question types to in preparation for the 7th grade English Language Arts PSSA exam.

ENGLISH 8 (103)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	Passing grade in English 7	1.00	8

Students will receive grammar instruction on all parts of speech, phrases, clauses and sentence mechanics. This material will be reinforced through student construction of several types of writing assignments in order to demonstrate proper use of grammar skills. Students will also read selected supplemental selections. The class will also involve a study of vocabulary terms to improve word usage in writing as well as every day communication. Students will receive instruction in text dependent analysis, essay writing and practice both multiple choice and constructed response question types in preparation the 8th grade English Language Arts PSSA exam.

COLLEGE PREPARATORY ENGLISH 9 – A (104) / B (105)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing Grade in English 8	.50 / .50	9

This freshman academic English course will focus on an in-depth study of grammar including terminology, structure, rules, and usage. Students will strengthen their literary skills and appreciation of literature through a variety of reading experiences. Similarly, students will advance their writing and vocabulary skills, especially those needed for post-secondary studies.

APPLIED ENGLISH 9 – A (106) / B (107)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing Grade in English 8	.50/.50	9

This course, designed for students who demonstrate moderate ability level in reading and writing skills, provides an excellent review of language skills at a level appropriate to the students enrolled. Time is equally spent between the study of literature, grammatical skills and vocabulary development.

COLLEGE PREPARATORY ENGLISH 10 – A (108) / B (109)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing Grade in CP English 9	.50/.50	10

This course consists of literature units which include the basic forms and structures of the novel, drama, non-fiction and the short story. Short compositions, with emphasis on the essay and its development make up part of the formal writing study. Studies in vocabulary with an emphasis on reading help to make this course one in which the students acquire the necessary background in skills and concepts to organize, interpret and communicate effectively. Exercises in text dependent analysis Keystone Exam style questions will be utilized in this class. Students will complete the Keystone Exam at the end of this course.

APPLIED ENGLISH 10 – A (110) / B (111)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing Grade in Applied English 9	.50/.50	10

This course is designed to help students achieve competency in reading, use of language and written/oral skills. Specific course content includes comprehension works of fiction and non-fiction, world literature and intensive vocabulary works. In-depth reading is required in the forms of novels, plays, and selections of short stories. Speaking skills are developed through informal discussions. Exercises in text dependent analysis Keystone Exam style questions will be utilized in this class. Students will complete the Keystone Exam at the end of this course.

COLLEGE PREPARATORY ENGLISH 11 – A (112) / B (113)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing Grade in CP English 10	.50/.50	11

The course offers students an opportunity to deepen their knowledge of American literature and provides a basis for developing concepts and ideas useful in either written or oral communication. College vocabulary is stressed throughout the year. Compositions of short themes, creative writing, short stories, and critical analyses are required to provide students the opportunities to develop organization, clarity, conciseness, and originality. The course is also comprised of two research based class presentations.

APPLIED ENGLISH 11- A (114) / B (115)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing Grade in Applied English 10	.50/.50	11

The course offers students an opportunity to deepen their knowledge of American literature and provides a basis for developing concepts and ideas useful in either written or oral communication. Vocabulary is stressed in the second half of the year. The course is also comprised of one class presentation.

COLLEGE PREPARATORY ENGLISH 12 – A (116) / B (117)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing Grade in CP English 11	.50/.50	12

This course is intended for students who approach the study of language arts in a mature and serious manner. Lengths and types of assignments vary, mirroring the demands placed on college students. Skills acquired in previous language arts classes are reinforced and expanded with the purpose of developing higher level thinking as well as oral and written communication skills in composition, grammar, literature, vocabulary and speech. Students study the writing process and create written and oral presentations in personal, descriptive, narrative, expository, persuasive, and research paper writing; grammar, usage, and punctuation are linked to each area of study and also addressed as needed. In addition, students read and closely examine a variety of literary genres – mostly British- which include essay, poetry, drama, short story, and novel. Students study associated vocabulary and are expected to respond to the literature through oral discussion (individual and group) as well as written assignments that are informative, analytical, and critical in nature.

APPLIED ENGLISH 12 – A (118) / B (119)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing Grade in Applied English 11	.50/.50	12

This course is aimed at students wanting to develop language arts skills needed for everyday life or a post-secondary education. Students will become more competent in their ability to use reading, writing, speaking and listening for practical as well as academic purposes. Students read a variety of fiction and nonfiction selections and are expected to respond through question and answer, discussion, and written expression. The focus is on reading comprehension, literary analysis, vocabulary development, and oral/written composition. Students apply the concepts and insights gained from their reading experiences to today's world as well as to personal life-school, work, and home. This application may involve research needed to prepare oral and written presentations and, additionally, to complete projects. Assignments require the use of Standard English; the study of grammar, usage, and punctuation will be linked to the curriculum and also addressed as student needs arise.

ENGLISH IN THE WORKPLACE (120)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	Passing Grade in Applied English 11	.50	12

In this senior level Vo-tech course students will sharpen their reading, writing, and communication skills needed for job preparation. These abilities will be enhanced through a variety of assignments such as resume writing, public speaking, interviewing, projects and numerous other activities. Group discussion and individual participation are essential components of this course.

ADVANCED PLACEMENT LITERATURE – (121)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	Recommended grade of 85% in CP English 11	1.00	12

The Advanced Placement course in Literature and Composition engages students in the close reading and critical analysis of imaginative literature. In this course, students will write and revise compositions in response to given literary selections. They will also write and revise critical essays that explicate poetry, short prose narratives, and selected novels and plays. This course also includes a research paper submission. Students are also required to discuss in a seminar setting, to make oral presentations. Students are highly encouraged to take the Advanced Placement Examination in Literature and Composition at their own expense. Students are responsible for completing required summer reading list for this course.

LITERATURE PREP – (123)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	10-11-12

The course will provide test preparation materials that align to the PA common core standards. The course provides a complete lesson for every standard listed in the Pennsylvania Academic Standards for Literature. There is also an abundance of practice questions to prepare students for the Keystone Exams.

CLASSICS I (124)

Length of Course	Periods per Week	Pre-requisites	Credit	Grade Level
36 weeks	5 periods per week	College Prep Curriculum	1.00	11-12

This course is a full year elective course offered to students in grades 11 and 12. Students will increase their college-level vocabulary via the study of prefixes and suffixes, knowledge or words and vocabulary study. Students will read one literary classic each marking period, these may include but not be limited to Everyman, Oedipus the King, The Merchant of Venice, Jane Eyre, and The Adventures of Huckleberry Finn. Utilizing the text Classical Myths That Live Today, students will study Roman mythology and its impact on vocabulary, literature, art, and music.

SAT PREP CRITICAL READING (125)

Length of Course	Periods per Week	Pre-requisites	Credit	Grade Level
18 weeks	5 periods per week	College Prep Curriculum	.50	11

The purpose of this course is to provide students with an introduction to the strategy, format, and content of the SAT College Board exam. The verbal component will do this through an intensive review of vocabulary and grammar, the reading of typical essays for comprehension and review of vocabulary and practicing test taking skills.

STUDY SKILLS 7 (133)

Length of Course	Periods per Week	Pre-requisites	Credit	Grade Level
9 weeks	5 periods per week	None	.25	7

This course is designed to provide 7th graders with organization, time management, and study skills and strategies. The course will assist the student in applying these skills to other classes. Study Skills is not a study hall. The focus of the class is to build skills that students will be able to utilize in all their classes.

FOREIGN LANGUAGE DEPARTMENT**INTRO TO GERMAN (500)**

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
9 weeks	5 periods per week	None	.25	8

This one quarter course will explore basic German vocabulary and everyday expressions. Topics to be covered: German contributions to the US, cognates, the German alphabet, numbers 0-100, greetings and expressions of courtesy, family members, classroom objects, time, German history, and geography.

GERMAN 1 (501)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	None	1.00	8-12

This course has been designed for, but is not limited to, the college bound student. It encompasses the practical conversational approach, but also emphasizes grammatical structure. The goal of the course is to teach students to read, write, comprehend and speak German at an elementary level. In addition to the basic text, workbook and language CD's, supplemental materials include music audio CD's and DVD's in German and English.

GERMAN II (502)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	Recommended grade of 70% or higher in German 1	1.00	9-12

This course continues the practical language format with stress on grammatical structure. Further development of reading, writing skills, comprehension and oral expression is emphasized. The everyday life of German teenagers and of German families is the subject of text, workbook, reader and language CD's. DVD's and narrated slides of MAHS student tours to Germany, Switzerland and Austria, as well as DVD's of the German-speaking countries colorfully portray the modern German culture. Several hands-on assignments and projects and a unit on German music from Baroque to the present acquaint students with areas of German culture and history.

GERMAN III (503)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	Recommended grade of 70% or higher in German II	1.00	10-12

Reading, writing, comprehension and oral skills will be developed to an intermediate level. Textbook topics include travel to the German-speaking countries, magazines, television, and the German home, along with a continuous comparison of German and American customs in many areas of life. Textbook, workbook and language CD's continue to be supplemented with music audio CD's and DVD's.

GERMAN IV (504)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	Recommended grade of 70% or higher in German III	1.00	11-12

Along with continued expansion of vocabulary and knowledge of grammatical structures, formal reading, writing, comprehension and oral skills will increase to an advanced level. Textbook material includes German history, festivals, scientists, musicians, legends and famous German-Americans. DVD's in German and English, German magazine articles, poems, and music supplement the basic text.

INTRO TO SPANISH (510)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
9 weeks	5 periods per week	None	.25	8

This course is designed to give students a preview of the language and some of its cultures. Throughout this course students will learn beginner level vocabulary and grammatical formation of nouns in the Spanish Language. The main topics to be covered are alphabet, numbers (0-39), simple introductions and greetings, days of week, months of the year, seasons, telling time, noun/adjective formation and agreement through the context of classroom settings, activities, and interactions.

SPANISH I (511)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	None	1.00	8-12

This course has been designed for, but is not limited to, the college bound student. It encompasses the practical conversational approach, but also emphasizes grammatical structure. The goal of the course is to develop listening, speaking, reading, and writing competency in Spanish by learning to perform a variety of language functions in a multiplicity of contexts with an appropriate level of accuracy. In addition to the basic text, workbook and language tapes, supplemental materials include music audiotapes, CD's and video tapes in Spanish and English.

SPANISH II (512)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	Recommended grade of 70% or higher in Spanish I	1.00	9-12

This course continues the practical language format with stress on grammatical structure. Further development of reading, writing skills, comprehension and oral expression is emphasized. The everyday life of Spanish teenagers and of Spanish families is the subject of text, workbook and language tapes.

SPANISH III (513)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	Recommended grade of 70% or higher in Spanish II	1.00	10-12

Reading, writing, comprehension and oral skills will be developed to an intermediate level. All aspects of Spanish grammar are covered. Textbook, workbook and language tapes continue to be supplemented with music and audio tapes and video tapes.

SPANISH IV (514)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	Recommended grade of 70% or higher in Spanish III	1.00	11-12

Along with continued expansion of vocabulary and knowledge of grammatical structures, formal reading, writing, comprehension and oral skills will increase to an advanced level. Textbook material includes history of Spain, Mexico, Central and South America.

HEALTH & PHYSICAL EDUCATION DEPARTMENT
(Wellness & Fitness Education)

PHYSICAL EDUCATION 7 (521)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
9 weeks	5 periods per week	None	.25	7

In this course students are expected to participate in the activities that are provided to them throughout the semester. The class will focus on lifelong fitness activities as well as team sports. The emphases of the class will be the importance of staying physically fit throughout the course of one's life.

HEALTH 8 (522)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
9 weeks	5 periods per week	None	.25	8

This required course will focus on issues that are relevant to the young adolescent. Topics will include, but not be limited to, decision-making skills, peer relationships, problem solving, life coping skills, issues of social interaction and tolerance, drug and alcohol education, disease prevention, and sex education. This course is designed to help young people navigate the often stressful period of youth, as well as establish a sound foundation for a successful adult life. The overall well-being of our students is a vital component to education.

HEALTH EDUCATION 9 (524)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	9

This course provides the student with an investigation of the current health situation. The structure, function and maintenance of the systems of the body are investigated. Topics of social interaction and tolerance, drug and alcohol education, disease prevention, and sex education are also discussed. Cardiovascular and respiratory health are covered with an emphasis on nutrition. Communicable and non-communicable diseases are also researched. It provides students with learning experiences that enable them to effectively assimilate health information and make discriminating decisions concerning their health and behavior as individuals, parents, and community citizens.

PHYSICAL EDUCATION 9 (525)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	9

In this course students are expected to participate in the activities that are provided to them throughout the semester. The class will focus on lifelong fitness activities as well as team sports. The emphases of the class will be the importance of staying physically fit throughout the course of one's life. In addition, many of the activities that will be provided during this course students will need to work together in teams or groups, to problem solve, to strategize, and communicate with one another in order to be successful. These are skills that will be beneficial to students throughout their high school careers and beyond.

PHYSICAL EDUCATION - 10 (526)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	10-11-12

The 10th grade physical education course helps students build physical fitness, learn a broad variety of skills and develop desirable attitudes and behaviors through instruction in a variety of individual and lifetime sports. This class will enable the student to identify activities that can be pursued later in life as a means of dealing with stress and maintaining physical fitness. Portions of this course may include classroom instruction and participation in activities such as aerobics, jogging, volleyball, golf, archery, bowling, table tennis, and weight training.

PHYSICAL EDUCATION - 11 (527)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	10-11-12

The 11th grade physical education course strives to develop and maintain a level of physical fitness, a variety of skills and positive attitudes through a variety of individual and lifetime sports. This class will enable the student to identify activities that can be pursued later in life as a means of dealing with stress and maintaining physical fitness. Portions of this course may include classroom instruction and participation in activities such as aerobics, jogging, volleyball, golf, archery, bowling, table tennis, and weight training.

PHYSICAL EDUCATION - 12 (528)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	10-11-12

The 12th grade physical education course reinforces concepts regarding the impact that desirable level of physical fitness can have on your body and overall health. This course will involve instruction in a variety of individual and lifetime sports. This class will enable the student to identify activities that can be pursued later in life as a means of dealing with stress and maintaining physical fitness. Portions of this course may include classroom instruction and participation in activities such as aerobics, jogging, volleyball, golf, archery, bowling, table tennis, and weight training.

HOME ECONOMICS DEPARTMENT

HOME ECONOMICS 7 (540)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
9 weeks	5 periods per week	None	.25	7

During the first part of the class, students will learn basic sewing skills by hand. They will prepare a hand sewing sample and a stuffed animal project. The second part of the class, students will learn basic cooking skills and about food safety.

HOME ECONOMICS 10 (542)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	10

This course is designed to help the student understand family life and their responsibility in the family; social responsibility is studied including basic manners and etiquette; clothing care; sewing machine basics; and nutritional responsibility including basic food preparation, with a focus on food safety.

HOME ECONOMICS 11-12 (546)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	11-12

This course is designed to prepare the students for life after high school. The student will learn goal setting techniques; study financial management including understanding a paycheck, checking accounts and credit; buying a car; renting vs. home purchase; and food safety, meal management and food preparation.

NEEDLE ARTS AND CRAFTS (543)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	11-12

This course will offer students the opportunity to learn crafting skills including but not limited to clothing construction, hand sewing techniques, quilting, embroidery, cross stitch, felting, knitting, and crocheting. Students will be able to choose the projects that meet their interest levels. Expenses for this class are to be covered by the student.

FAMILY DEVELOPMENT (545)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	None	1.00	11-12

Students will study families and the individuals who make up a family. The course will specifically pinpoint infants, toddlers, and parenting skills. Students will also be exposed to family health, birth defects, child abuse and neglect and other social issues. A Nursery School will be offered during the second and fourth marking periods.

MATHEMATICS DEPARTMENT**ARITHMETIC 7 (200)**

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	None	1.00	7

This course includes a review of the four operations for whole numbers, fractions, and decimals. Also included in this course are introductions to ratio, proportion, percent, probability, and basic geometry concepts including area, perimeter, and volume of plane and solid shapes. Students will also receive a brief introduction to the Pre-Algebra topics of variables, signed numbers, expressions, and equations. This course prepares students for all eligible content on the 7th grade PSSA.

PRE-ALGEBRA 7 & 8 (201)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	None	1.00	7-8

Pre-Algebra is a course designed to prepare students for advanced math studies. This course includes a review of the four operations for whole numbers, fractions, and decimals. Also included in this course are introductions to ratio, proportion, percent, probability, variables, signed numbers, expressions, equations, and basic geometry concepts including area, perimeter, and volume of plane and solid shapes.

MATH PREP 7 (228)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	7

This course provides test preparation materials that align to the Pennsylvania Common Core standards. This course provides lessons for every standard listed in the PSSA 7th grade Math test. Practice tests include an abundance of multiple choice and open-ended questions which are a large component of the PSSA exams. This course must be taken concurrently with Pre-algebra 7 and Arithmetic 7.

MATH PREP 8 (227)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	7

This course provides test preparation materials that align to the Pennsylvania Common Core standards. This course provides lessons for every standard listed in the PSSA 8th grade Math test. Practice tests include an abundance of multiple choice and open-ended questions which are a large component of the PSSA exams.

COLLEGE PREPARATORY ALGEBRA I – A (202) / B (203)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	70% or higher in Pre-Algebra	.50/.50	8-12

This course prepares students for all eligible content on the 8th grade PSSA including, The Number System, Ratios and Proportional Relationships, Expressions and Equations, Geometry and Statistics & Probability. It also includes a review of Pre-algebra concepts, signed numbers, the study of real numbers, equations, exponents, operations with polynomials, factoring, algebraic fractions, and graphing. Emphasis is placed on developing problem solving skills. The course prepares students for the grade 8 PSSA exam and introduces eligible content for the Algebra Keystone exam.

COLLEGE PREPARATORY ALGEBRA II – A (204) / B (205)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	70% or higher in CP Algebra I	.50/.50	9-12

This course is a continuation of the development of concepts and problem solving methods begun in Algebra I. It includes the study of operations with real numbers and expressions, linear equations, linear inequalities, functions, coordinate geometry and data analysis. An introduction to proofs, probability, statistics and matrix algebra will also be given. This course prepares students for all eligible content on the Algebra Keystone exam. Students will complete the Keystone Exam at the end of this course.

COLLEGE PREPARATORY GEOMETRY- A (206) / B (207)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	70% or higher in CP Algebra II	.50/.50	9-12

College Prep Geometry is a course designed to develop deductive reasoning skills. It involves the study of plane figures including points, lines, planes, triangles, polygons, and circles. It also emphasizes the use of proofs, right triangle relationships, calculation of perimeter, area and volume and the relationship of arcs and the angles in circles. Each student will analyze problems and write formal proofs. of parallel

and perpendicular lines, the geometry of angles and triangles, the concepts of congruence and similarity, and the study of polygons. In addition, the student will study the Pythagorean Theorem, circles and sectors, areas of polygons, and surface area and volume of solids. Students who have successfully completed this course will be prepared for the SAT and ACT tests.

TRIGONOMETRY / PRE-CALCULUS - A (208) / B (209)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Recommended grade of 70% or higher in CP Algebra II and CP Geometry	.50/.50	10-12

This course is an integration of geometry, trigonometry and algebra III. It reinforces and expands upon the student's algebraic skills. Also some of the transcendental functions, such as the trigonometric functions, are studied in detail. It is intended to provide enough exposure to the algebra of the transcendental functions to prepare the student for a first year of college calculus (or the Calculus course offered at MAHS).

MATHEMATICAL ANALYSIS - A (210) / B (211)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Recommended grade of 70% or higher in Trig./Pre-Calculus	.50/.50	11-12

This course provides review and reinforcement of all the material presented from previous math courses. Some of the other topics which are explored include permutations and combinations, complex numbers and quadratic equations, trigonometry and trigonometric equations, and conic sections. This course can be taken concurrently with Calculus.

ADVANCED PLACEMENT CALCULUS - A (212) / B (213)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	Recommended grade of 85% or higher in Trig./Pre-Calculus	1.00	11-12

This course is a rigorous presentation of college level differential and integral calculus that is supplemented by the use of the TI-89 graphing calculator. In addition, the course also includes an in-depth review of analytic geometry and trigonometry.

APPLIED ALGEBRA I – A (214) / B (215)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing grade in Pre-Algebra	.50/.50	9-11

This course is a continuation of the development of concepts and problem solving methods begun in Algebra I. It includes the study of operations with real numbers and expressions, linear equations, linear inequalities, functions, coordinate geometry and data analysis. The mathematical vocabulary of these topics will be reinforced to promote success on the PSSA math writing prompts. This course prepares students for all eligible content on the Algebra Keystone exam. Students will complete the Keystone Exam at the end of this course.

APPLIED ALGEBRA II - A (216) / B (217)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing grade in Applied Algebra I	.50/.50	9-12

This course is a continuation of the concepts and problem solving methods begun in Applied Algebra I. Many of the topics were introduced in Applied Algebra I and will be expanded upon in this course. Other topics include irrational and complex numbers, solutions of quadratic equations solutions of systems of linear equations, solutions of polynomial equations, variations and exponential and logarithmic functions.

APPLIED GEOMETRY - A (218) / B (219)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing grade in Applied Algebra II	.50/.50	10-12

Applied Geometry is designed to provide an understanding of geometric principles. Students will be presented with the basic geometric definition and terms, properties of parallel and perpendicular lines, the geometry of angles and triangles, the concepts of congruence and similarity, and the study of polygons. In addition, the student will study the Pythagorean Theorem, circles and sectors, areas of polygons, and surface area and volume of solids.

TECHNICAL MATHEMATICS I – A (220) / B (221)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing grade in Applied Geometry	.50/.50	12

This course will introduce higher levels of mathematics for students in an applied or vocational education. Algebra skills will be reviewed and expanded to show how these concepts are incorporated into "real life" problems. This course is designed to expand a student's understanding of algebra to solve everyday workplace problems. All students are encouraged to have acceptable scientific calculators.

TECHNICAL MATHEMATICS II – A (224) / B (225)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing grade in Tech Math I	.50/.50	12

This course will reinforce mathematical concepts covered in Technical Mathematics I. It is designed to expand upon ideas covered throughout the student's mathematical education (including algebraic, geometric, trigonometric, and statistical concepts) and how they can be applied to solve various problems.

ALGEBRA PREP – (222, 224, 225, 226, 227, 228)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	7-12

The course provides test preparation materials that align to the PA Common Core Standards. The course provides a complete lesson for every standard listed in the Keystone Algebra test. There is also an abundance of practice multiple choice questions and constructed response practice test questions. All students are encouraged to have acceptable scientific calculator.

SAT MATH - (223)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	College Prep Curriculum	.50	11

This course provides test preparation for the SAT test. It will include test taking skills for students to achieve a successful score. All math concepts will be reviewed from basic arithmetic to trigonometry. Practice problems will follow the newly designed SAT test. The use of a calculator will be permitted according the new SAT guidelines.

MUSIC DEPARTMENT**MUSIC 7 (630)**

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
9 weeks	5 periods per week	None	.25	7

Students will explore the families of instruments by listening to musical examples of the instruments and learn to recognize them by sight and sound. Students will explore music through the eras. They will study music from the Renaissance, Baroque, Classical, and Romantic eras. The students will learn composers from each musical era and recognize the differences and similarities between them.

MUSIC 8 (631)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
9 weeks	5 periods per week	None	.25	8

Students will explore American Popular music from the mid-1800's to the end of the 1900's. The student will discover the foundation of the music he or she listens to today and gain an appreciation for America's musical heritage.

MUSIC 9 (632)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	9

Students will explore core concepts and major figures in jazz through lessons that demonstrate the rich cultural heritage and definitive musical elements inherent in jazz. They will also study the structure and major figures in rock and roll from the roots through the end of the 20th century.

SCIENCE DEPARTMENT**LIFE SCIENCE 7 – (300)**

Length of Course	Periods per Week	Prerequisites	Credits	Grade Level
36 weeks	5 periods per week	None	1.00	7

This course includes a variety of Sciences based off of the Pennsylvania Common Core, including the nature of science. Life Science topics will include The Scientific Method, Metric System, Classification of living things, introduction to chemistry, the cell, energy in cells, DNA and Genetics. The Physical Science topics will include introduction to motion, forces, work, and power. Earth Science topics will include Introduction to Earth Science, Oceanography and Weather. This course will also offer some PSSA test taking tips and practice.

GENERAL SCIENCE 8 –(301)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	None	1.00	8

This course includes a variety of Sciences based off of the Pennsylvania Common Core including the Nature of Science Biological Sciences Physical Sciences Earth and Space Sciences. Earth Science topics will include review of the Scientific Method, review of the Metric System, atoms, combination of atoms, properties of matter, energy from atoms, the electromagnetic spectrum, exploring space, the Sun-Earth-Moon relationship, the Solar System, Latitude and Longitude, Weathering and Erosion Concepts. Life Science concepts will include reviewing the cell, Genetics, and DNA. Physical Science topics will include the Periodic Table, balancing equations, and a review of the 7th grade material. This course in combination with 7th grade life science prepares students for the 8th grade PSSA Science exam.

COLLEGE PREPARATORY FOUNDATIONS OF ECOLOGY (303)

Length of Course	Periods per Week	Prerequisites	Credits	Grade Level
18/18 weeks	5 periods per week	None	.50/.50	9

This course will introduce many of the concepts of biology as well as ecology. Introductory topics in biology will include: Organization of Living Organisms, Organic Molecules, Enzymes, ATP, Cellular Respiration. Photosynthesis, Evolution, Homeostasis and all types of transport. The Ecological topics investigated include genetics, theory of evolution, Ecosystems, Biomes, Cycles of matter and all responses to change. This course will begin to prepare students for the realm of standardized tests they will complete.

APPLIED FOUNDATIONS OF ECOLOGY (305)

Length of Course	Periods per Week	Prerequisites	Credits	Grade Level
18/18 weeks	5 periods per week	None	.50/.50	9

This course will introduce many of the concepts of biology as well as ecology. Introductory topics in biology will include: Organization of Living Organisms, Organic Molecules, Enzymes, ATP, Cellular Respiration. Photosynthesis, Evolution, Homeostasis and all types of transport. The Ecological topics investigated include genetics, theory of evolution, Ecosystems, Biomes, Cycles of matter and all responses to change. This course will begin to prepare students for the realm of standardized tests they will complete.

COLLEGE PREPARATORY BIOLOGY – A (306) / B (307)

Length of Course	Periods per Week	Prerequisites	Credits	Grade Level
18/18 weeks	5 periods per week	80 % or higher CP Foundations of Biology	.50/.50	10

This lab-based course is designed for college bound students. Students will focus on the interrelationships between living and non-living worlds. The topics will include; Basic Biological Principals, the chemical basis of life, bioenergetics, homeostasis & transport, energy, photosynthesis, cell cycles, cell respiration, heredity, genetics as well as ecology. Students will complete the Keystone Exam at the end of this course.

APPLIED BIOLOGY - A (308) / B (309)

Length of Course	Periods per Week	Prerequisites	Credit	Grade Level
18/18 weeks	5 periods per week	APP Foundations of Biology	.50/.50	9

Applied Biology is a required course for students in the technical field of studies. The course is designed to provide knowledge for students to prepare for the standardized testing they are required to complete. This lab-based course is designed for college bound students. Students will focus on the interrelationships between living and non-living worlds. The topics will include; Basic Biological Principals, the chemical basis of life, bioenergetics, homeostasis & transport, energy, photosynthesis,

cell cycles, cell respiration, heredity, genetics as well as ecology. Students will complete the Keystone Exam at the end of this course.

BIOLOGY PREP (330)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	Recommended grade	.50	10-11

This class is designed and will provide instruction on the topics needed to succeed in the Biology Keystone Exams. In this course, every standard of the common cores listed for the keystones will be covered. During this course, students will practice heavily the correct way to answer the open ended or constructed response questions that are part of the Keystone Exam.

COLLEGE PREPARATORY CHEMISTRY – A (310) / B (311)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing grade in Biology and Algebra II	.50/.50	11

The organization of the course presents, through a rational approach, the schematic organization of the elements beginning with the construction of the atom. It covers the names, symbols, atomic numbers and configuration of the elements. The study includes identifying the formulas for compounds, writing chemical equations, and developing more complex compounds and reactions involving single and double replacement. The course emphasizes chemical computation based on percentage composition, correct formulas, the mole, gas laws, density and conversion of temperature scales. The final units deal with solutions and organic chemistry

APPLIED CHEMISTRY - A (312) / B (313)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing grade in Biology and Algebra II	.50/.50	11

This course presents, through a rational approach, the schematic organization of the elements beginning with the construction of the atom. It covers the names, symbols, atomic numbers and configuration of the elements. The study includes identifying the formulas for compounds, writing chemical equations, developing more complex compounds and reactions involving single and double replacements. The course emphasizes chemical computation based on percentage composition, correct formulas, the mole, gas laws, density and conversion of the temperature scales. The final unit deals with solutions and organic chemistry. This course is offered for students who may not choose science as a major or vocation

COLLEGE PREP ENVIRONMENTAL SCIENCE - A (314) / B (315)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	None	.50/.50	11

College Prep Environmental Science is an interdisciplinary science for students interested in advancing their education beyond high school with an emphasis on how physics and chemistry drive our environment from the vastness of our universe down to our back yard. Environmental Science stresses expression of ideas through writing prompts and presentations.

APPLIED ENVIRONMENTAL SCIENCE – A (316) / B (317)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	None	.50/.50	11

Applied Environmental Science is an interdisciplinary science course for students interested in the interrelationships of our solar system, natural world, natural and man-made environmental problems, the risks associated with these problems, and alternative solutions. The course is intended for students that might not otherwise consider an advanced course in science (for example: future journalists), as well as for future scientists. Environmental Science stresses expression of ideas based on writing prompts and oral reports.

COLLEGE PREPARATORY PHYSICS - A (318) / B (319)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 Weeks	5 periods per week	Passing grade in CP Algebra II and CP Geometry	.50/.50	12

This course uses the physical laws governing the universe to provide the student with the necessary knowledge to pursue his/her post-secondary interests. Topics studied in this class include force, motion, work, heat and energy, electricity, light, sound, and magnetism.

APPLIED PHYSICS – A (320) / B (321)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 Weeks	5 periods per week	Passing Grade in Applied Algebra II	.50/.50	12

This course uses the physical laws governing the universe to provide the student with the necessary knowledge to pursue his/her post-secondary interests. Topics studied in this class include force, motion, work, heat and energy, electricity, light, sound, and magnetism.

COLLEGE PREP ANATOMY AND PHYSIOLOGY – A (322) / B (323)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Recommended grade of 80% or higher in CP Biology	.50/.50	11-12

Advanced students leaning toward a major in biology, pre-med, nursing, physical therapy, health, etc. should take this course. The information available to students includes the structures and functions of circulation, respiration, nutrition, digestion, movement, reproduction, coordination, metabolism, and other body activities. Also, a portion of the course is dedicated to genetics, organic chemistry, disease, and disease producing organisms. Dissection of the fetal pig is a required activity in this elective. Dissection gives the student some familiarity with the appearance and location of body structures. This course is a prerequisite for advanced placement biology.

APPLIED ANATOMY – A (324) / B (325)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	Passing grade in Applied Biology	.50/.50	11-12

Applied Anatomy is a course specifically designed for our applied and vocational students. Students enrolled in applied and technical, cosmetology, allied health, and horticulture will benefit by taking this course. It includes units on cells, tissues, organs and systems of the body.

ADVANCED PLACEMENT BIOLOGY AND LAB (326)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	Class - 5 periods per week Lab – 5 periods per week	Recommended grade of 85% or higher in: -CP Anatomy and Physiology -CP Chemistry (or currently enrolled) -CP Anatomy / Physiology	1.50	11-12

AP Biology is designed to be the equivalent of a college level introductory biology course as well as prepares the student to take the Advanced Placement exam in Biology for college credit. Topics include chemistry, cells, cellular energetics, heredity, molecular genetics, evolution, organisms, populations, and ecology. The dissection of a preserved specimen and 12 standard labs are required with this elective. AP-Bio is for goal oriented high achievers interested in a science major. AP Bio would also be an excellent choice for a student looking for the challenge of earning college credits while in high school. A Summer Assignment is required for this course.

STEM 7 (327) & STEM 8 (328)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	Recommended grade	.50	7-8

STEM (Science, Technology, Engineering, and Mathematics) The ultimate goal of STEM education is to encourage students to take an interest in STEM careers at any age. STEM Students will be introduced to STEM curriculum and how it will impact them in the future. Students will be introduced to many hands on activities. Some example may include, but are not limited to: designing a phone app, creating a city with a coordinate plane, design a deck (scaling of objects), check for square (Pythagorean), wiring and circuit design and simple machine activities. Real world application problem solving will be highlighted how frost line, planning, estimating, material properties and waste impact the overall project.

STEM 11-12 (329)

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	Recommended grade	.50	11-12

STEM (Science, Technology, Engineering, and Mathematics) The ultimate goal of STEM education is to encourage students to take an interest in STEM careers at any age. Students will be introduced to many hands on activities. Some example may include, but are not limited to: design a compound machine using four different simple machines, build a catapult for accuracy, and design a solar powered scoreboard. The class will explore the application of science topics such as motion, energy, power, work, mass, density, and volume are quantified using math in a project design. This class is designed to make students think, create, and even fail along their way to success. Students will need to be creative and have the ability to work through problems that arise during their projects.

SOCIAL STUDIES DEPARTMENT**Geography 7 (400)**

Length of Course	Periods per Week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	None	1.00	7

This course will combine the two main braches of Geography (Physical Geography and Cultural Geography) into one introductory course. Physical Geography will focus on the Earth's land formations, environment, climate, and weather patterns and students will analyze the causes of these and their relationship with humans. Cultural Geography will focus on the world's distribution of different cultures, ethnicities, and religions. Students will analyze the historical and environmental causes of these distributions. This course is designed to increase map literacy and awareness of different cultures. Students will incorporate previous knowledge of math, science, and social studies in this course.

AMERICAN HISTORY I (401)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
36 weeks	5 periods per week	None	1.00	8

This is a 36 week course that explores American history starting with the European empires in the Americas to the American Revolution and ending with the Civil War. Development of an American identity is discussed along with how our nation was created and includes a thorough discussion fo the Constitution of the United States and our obligations and rights as American citizens. Grading is based on homework assignments, in-class assignments, vocabulary/people quizzes, chapter tests, writing prompts, projects, and presentations.

COLLEGE PREPARATION WORLD HISTORY I – A (402) / B (403)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	None	.50/.50	9

This is a 36 week course that explores world history from the earliest humans to the ancient Egyptians and ending with the Renaissance. The major contributions of civilizations such as the Greeks and Romans are discussed along with how they have affected our current society. Major world religions are also introduced and discussed with students throughout the course. Grading is based on homework assignments, in-class assignments, vocabulary quizzes, chapter tests, writing prompts, projects, and presentations.

APPLIED WORLD HISTORY I – A (404) / B (405)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	None	.50/.50	9

This course starts with the rise of man during prehistoric time and follows his movement through the ancient civilizations, the middle ages in Europe and ends in the modern period with the age of Renaissance. Along the way students will participate in various hands-on learning activities, many interpretation, and discussion. The course is designed to make students aware of the contributions made by other civilizations to our society.

COLLEGE PREPARATORY AMERICAN HISTORY II – A (406) / B (407)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	None	.50/.50	10

This course will provide a comprehensive analysis in American history, government, and political functions at the local, state and national levels from Reconstruction (1865) to the present. Students will be required to complete several extensive research and writing assignments throughout the year.

APPLIED AMERICAN HISTORY II – A (408) / B (409)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	None	.50/.50	10

This course will provide a comprehensive study in American history from the Reconstruction period to the present. Socio-economic, domestic, and foreign policy changes will be explored. Local and state history will also be included.

COLLEGE PREPARATORY POLITICAL SCIENCE AND ECONOMICS – A (410) / B (411)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	None	.50/.50	11

The course is designed to use intensified writing skills to analyze, review, and synthesize the information to course is designed around. This course will focus on the fundamentals of the American system of politics and government. Students will study the federal governmental structure carefully examining the legislative, executive, and judicial branches. During the economics section, students will study basic economic principles, as well as becoming involved in making financial and personal decisions in the real world of work and finance.

APPLIED POLITICAL SCIENCE AND ECONOMICS – A (412) / B (413)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	None	.50/.50	11

This course will focus on the fundamentals of the American system of politics and government. Students will study the federal governmental structure carefully examining the legislative, executive, and judicial branches. During the economics section, students will study basic economic principles, as well as becoming involved in making financial and personal decisions in the real world of work and finance.

COLLEGE PREPARATORY WORLD HISTORY II - A (414) / B (415)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	None	.50/.50	12

Beginning with the Agriculture and Industrial Revolutions, this course will concentrate on developments in Modern World History. A focus will be placed on Europe, Latin and America, Africa, Oceania, Asia, and the Middle East. Students will also be taught research methods, culminating in an in depth major research paper as a requirement for this course. Current events in World History will be discussed and examined periodically.

APPLIED WORLD HISTORY II – A (416) / B (417)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
18/18 weeks	5 periods per week	None	.50/.50	12

Beginning with the Agriculture and Industrial Revolutions, this course will concentrate on developments in Modern World History. A focus will be placed on Europe, Latin and America, Africa, Oceania, Asia, and the Middle East. Students will be required to complete a series of small research projects throughout the year to help enhance knowledge of material. Current events in World History will be discussed and examined periodically.

CURRENT EVENTS – (418)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	11-12

Current Events is a one-semester course focused on developing ideas and opinions on current event issues that are shaping our social, political, and economic life. The students will use the newspaper, television, and the internet to gather information on various world, national and local current event.

PSYCHOLOGY – (419)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	11-12

This is an introductory one-semester course designed to give the students a broad overview of the basic theories and concepts of psychology. The course will focus on individual behavior and why an individual thinks, feels, and reacts to certain stimuli. Major emphases will be placed on research methods, stages in childhood and adolescence, how the brain works, altered states of consciousness, psychological testing, and psychological disorders.

SOCIOLOGY – (420)

Length of Course	Periods per week	Prerequisite	Credit	Grade Level
18 weeks	5 periods per week	None	.50	11-12

This course will be concerned with the behavior of the individual as it is affected by the groups(s) to which he belongs. It will analyze the function and behavior of groups in society. It will also analyze social processes and functions. Topics may include: the socialization process, aging and society, social organizations, communities and urbanization, social stratification, intergroup relations, family and marriage, religious perspectives, education, and social issues and problems.

Schuylkill Technology Center

The Schuylkill Technology Center is an elective option of high school course selection designed to provide the basic technical skills to assist all students to prepare for a career in tomorrow's high tech workforce and enable students to get a "head start" on post-secondary career. Programs offer basic entry-level skills with "hands-on" training on computerized and technical equipment. Students must have completed the ninth grade to enroll in the Technology Center. All Schuylkill Technology Center Programs of Studies have articulation agreements to various post-secondary/ higher education institutes, thus providing for advanced placement and advanced skill opportunities. More information regarding program of studies and articulation agreements can be obtained from Schuylkill Technology Center-Guidance Department at 570-544-4748 and 570-874-1034 or on the web at www.stcenters.org .

Schuylkill Technology Center Program of Study (POS)

The Carl D. Perkins Career and Technical Education Improvement Act of 2006 requires the development and implementation of career and technical programs of study (POS). Programs of Study incorporate secondary education and postsecondary education elements; include coherent and rigorous content aligned with challenging academic standards and relevant career and technical content in a coordinated, non-duplicative progression of courses that align secondary education with postsecondary education to adequately prepare students to succeed in postsecondary education; may include the opportunity for secondary education students to participate in dual or concurrent enrollment programs or other ways to acquire postsecondary education credits and lead to an industry-recognized credential or certificate at the postsecondary level or an associate or baccalaureate degree.

Programs of Study Consist of:

- ✓ High Priority Occupation (HPO) from PA Department of Labor and Industry
- ✓ Align POS selection from PA approved CIPs
- ✓ Scope and Sequences of Courses
- ✓ Integration of Academics Standards
- ✓ Recognized PA Industry Certifications aligned to CIPs
- ✓ Statewide articulations for POS students to postsecondary institutions that continue career pathways
- ✓ Assessments for end of program at secondary and postsecondary (e.g. NOCTI)

Schuylkill Technology Center's Career Clusters and Program of Study

Architecture and Construction

- Carpentry
- Computer Aided Drafting
- Masonry
- Plumbing & Heating Technology
- Residential/Industrial Electricity

Health Science

- Health Careers

Human Services

- Cosmetology
- Culinary Arts
- Early Child Care & Education
- Landscape & Floral Design

Information Technology

- Computer Information Systems

Manufacturing

- Electromechanical Technology
- Machine Trades Technology
- Welding Technology

Marketing Sales & Service

- Marketing

Transportation, Distribution & Logistics

- Automotive Technology
- Collision Repair & Custom Refinishing
- Diesel Technology
- Small Engine Technology

Schuylkill Technology Center's Career Clusters and Program of Study Descriptions

Architecture and Construction

Carpentry

An instructional program that prepares individuals to apply technical knowledge and skills to lay out, fabricate, erect, install and repair structures and fixtures using hand and power tools. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques.

Computer Aided Drafting

An instructional program that generally prepares individuals to apply technical knowledge and skills as each relates to gathering and translating of data or specifications including basic aspects of planning, preparing and interpreting mechanical, architectural, chemical, structural, civil, pneumatic, marine, electrical/electronic, topographical and other drawings and sketches used in various engineering fields. Instruction is designed to provide experiences in drawing and CAD; the use of reproduction materials, equipment and processes; the preparation of reports and data sheets for writing specifications; the development of plan and process charts indicating dimensions, tolerances, fasteners, joint requirements and other engineering data; the development of models; and drafting multiple view assembly and sub-assembly drawings as required for manufacture, construction and repair of mechanisms.

Masonry

An instructional program that prepares individuals to apply technical knowledge and skills in the laying and/or setting of brick, concrete block, glass block, hard tile, marble and related materials using trowels, levels, hammers, chisels and other hand tools.

Plumbing & Heating Technology

A program that prepares individuals to practice as licensed plumbers by applying technical knowledge, safety and skills to lay out, assemble, install and maintain plumbing fixtures and systems for steam, natural gas, oil, hot water, heating, cooling, drainage, lubricating, sprinkling and industrial processing systems in home and business environments. Includes instruction in source determination, water distribution, waste removal, pressure adjustment, basic physics, technical mathematics, blueprint reading, pipe installation, pumps, brazing and soldering, plumbing inspection and applicable codes and standards.

Residential/Industrial Electricity

An instructional program that prepares individuals to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically-energized residential, commercial and industrial systems, and DC and AC motors, controls and electrical distribution panels. Instruction emphasizes practical application of mathematics, science, circuit diagrams and use of electrical codes and includes blueprint reading, sketching and other subjects essential for employment in the electrical occupations. Reading and interpretation of commercial and residential construction wiring codes and specifications, installation and maintenance of wiring, service and distribution networks within large construction complexes are also critical components of the program.

Health Science

Health Careers

A cluster program with a combination of subject matter and experiences designed to prepare individuals for entry-level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, etc.

Human Services

Cosmetology

An instructional program that prepares individuals to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care and beautification of the hair, complexion and hands. Instruction includes training in giving shampoos, rinses and scalp treatments; hair styling, setting, cutting, dyeing, tinting and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations are also emphasized. Instruction is designed to qualify pupils for the licensing examination.

Culinary Arts

An instructional program that prepares students for employment related to institutional, commercial or self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory and work experience related to planning, selecting, preparing and serving of quantity food and food products; nutritive values; use and care of commercial equipment; safety; and sanitation precautions. Instruction skills are provided to individuals desiring to become employed in all areas of the food service industry at entry level.

Early Child Care and Education

An instructional program that prepares individuals for a variety of occupations in child care and guidance often under the supervision of professional personnel in child or day care centers. This program includes instruction in growth and development; nutrition; program planning and management; safety; behavior guidance; play activities; child abuse and neglect; parent-child personal relationships; learning experiences for children; and laws, regulations and policies relating to child care services.

Landscape and Floral Design

An instructional program having a combination of organized subject matter and practical experiences that generally prepares individuals to produce, process and market plants, shrubs and trees used principally for ornamental, recreational and aesthetic purposes and to establish, maintain and manage horticultural enterprises. Instruction emphasizes knowledge, understanding and application important to establishing, maintaining and managing horticultural enterprises such as arboriculture, floriculture, greenhouse operation and management, landscaping, nursery operation and management and turf management.

Information Technology

Computer Information Systems

An instructional program that prepares individuals to apply technical knowledge and skills to support the design and development of software applications. This program is designed to provide the capacity to prepare and interpret process and data models, develop and structure software components and to validate the functionality, usability and reliability of those components. Validation skills include testing and debugging. System, component and user documentation is to be performed throughout the process. This program will provide students with the ability to integrate new and existing components. Students will receive instruction in at least two programming languages including at least one procedure-oriented language and one object and visually-oriented language. This course provides a thorough practical knowledge of the concepts, theories, logic and

critical thinking skills required when building software applications. Students completing the program will possess a basic technical foundation needed to pursue postsecondary degrees leading to a career as a software developer, analyst project leader or in the management of information technologies. Students may prefer to immediately enter the labor market in an entry-level position as developer or analyst.

Manufacturing

Electromechanical Technology

An instructional program that prepares individuals to apply basic engineering principles and technical skills in both the mechanical and electrical fields. Instruction is planned to provide preparation in the design, development and testing of electromechanical devices and systems such as automatic control systems, servomechanisms, vending machines, elevator controls, missile controls, tape-control machines and auxiliary computer equipment. Instruction also includes feasibility testing of engineering concepts, systems analysis including designs, selection and testing and application of engineering data and the preparation of written reports and test results in support of mechanical and electrical engineers.

Machine Trades Technology

An instructional program that prepares individuals to apply technical knowledge and skills in all aspects of shaping metal parts. Instruction involves making computations relating to work dimensions, tooling and feeds and speeds of machining. Emphasis is placed upon bench work and the operation of lathes, power saws, milling machines, grinders, drills and computer operated equipment (CNC and CIM). Instruction also includes the use of precision measuring instruments such as layout tools, micrometers and gauges; methods of machining and heat treatment of various metals; blueprint reading; and the layout of machine parts. Instruction prepares students to operate all types of hand and computer controlled machines.

Welding Technology

An instructional program that prepares individuals to apply technical knowledge and skills in gas, arc, shielded and non-shielded metal arc, brazing, flame cutting. Hand, semi-automatic and automatic welding processes are also included in the instruction. Students learn safety practices and types and uses of electrodes; properties of metals; blueprint reading; electrical principles; welding symbols and mechanical drawing; use of equipment for testing welds by ultrasonic methods and destruction and hardness testing; use of manuals and specification charts; use of portable grinders and chemical baths for surface cleaning; positioning and clamping; and welding standards established by the American Welding Society, American Society of Mechanical Engineers and American Bureau of Ships.

Marketing Sales & Service

Marketing

An instructional program that provides instruction in the fields of sales, distribution and marketing operations and focuses on the process and techniques of direct wholesale and retail buying and selling operations. This program is concerned with marketing, sales, distribution, merchandising and management including ownership and management of enterprises engaged in marketing. Marketing education programs prepare individuals to perform one or more marketing function such as selling, pricing, promotion, product/service management, distribution, financing and marketing information management. In addition, instructional programs include varying emphasis on technical knowledge

of products and/or services marketed; related communication, economic, technological and computation skills; and abilities and attitudes associated with human relations. The program may also include management functions associated with owning and operating a business. Sales, distribution and marketing operations prepares individuals for occupations in such businesses as retail and wholesale trade, finance, insurance, real estate, entertainment, hospitality, food service, communications, storage and distribution.

Transportation, Distribution & Logistics

Automotive Technology

An instructional program that prepares individuals to apply technical knowledge and skills to engage in the servicing and maintenance of all types of automobiles and light trucks. This program includes instruction in the diagnosis and testing, including computer analysis, of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems and drive train and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as cooling systems, drive trains, fuel system components and air conditioning and includes the use of technical repair information and the state inspection procedures.

Collision Repair & Custom Refinishing

An instructional program that prepares individuals to apply technical knowledge and skills to repair damaged automotive vehicles such as automobiles and light trucks. Students learn to examine damaged vehicles and estimate cost of repairs; remove, repair and replace upholstery, accessories, electrical and hydraulic window and seat operating equipment and trim to gain access to vehicle body and fenders; remove and replace glass; repair dented areas; replace excessively damaged fenders, panels and grills; straighten bent frames or unibody structures using hydraulic jacks and pulling devices; and file, grind and sand repaired surfaces using power tools and hand tools. Students refinish repaired surfaces by painting with primer and finish coat.

Diesel Technology

This is an instructional program that prepares individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. The program includes instruction in diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, preventative maintenance inspections, drive trains, HVAC systems, and auxiliary equipment installation and repair.

Small Engine Technology

An instructional program that prepares individuals to apply technical knowledge and skills to repair, service, maintain and diagnose problems on a variety of small internal-combustion gasoline engines and related systems used on portable power equipment such as lawn and garden equipment, chain saws, outboard motors, rotor tillers, snowmobiles, lawn mowers, motorcycles, personal watercraft and pumps and generators. This program includes instruction in the principles of the internal-combustion engine and all systems related to the powered unit. Instruction also includes the use of technical and service manuals, state inspection code, care and use of tools and test equipment, engine tune-up/maintenance, engine overhaul, troubleshooting and diagnostic techniques, drive lines and propulsion systems, electrical and electronic systems, suspension and steering systems and service operations and parts management.

Academic Courses

American Studies - 1cr

American Studies is a Level I course that focuses on the history of the United States from 1900 to present. Through readings, literature excerpts, political cartoons, simulations, technology projects and more, students will gain insight into the nation's past by examining period accounts and first person voices. Students will use varied resources to examine the links and make connections between events being studied in the textbook/ learning guides and events that are taking place today. The major focus is the state history standards: content, chronology, analysis, and interpretation. Related concepts found in the state civics, economics, and geography standards are a supporting focus.

World Studies - 1cr

World Studies is a Level II course focusing on the diverse ways of life found around the world. Through study of the pertinent issues to the major regions of the world, students will recognize and evaluate the relationships between people, places, regions, and environments. Students will further explore how physical environments affect human events and build a global perspective that allows them to understand the connections between global and national issues. The major focus is the state's geography standards: maps, environments, places, and regions. Related concepts found in the state civics, economics, and history standards are a supporting focus.

Civics/Economics - 1cr

Civics/Economics is a Level III course that is comprised of two disciplines. Economics is a course that teaches students how to make reasoned economic choices and provide ways they can effectively participate in an increasingly competitive and interdependent global economy. Students will assess the impact of market influences and governmental actions on our economy through the use of real world economic applications and analyze how different economic systems interact. In Civics, students will learn about the basic freedoms traditionally enjoyed by American citizens and about the qualities of a good citizen. Students will explore issues about U.S. citizenship and their rights and responsibilities and roles in their communities by putting them in decision-making simulations and assessments that will enable them to acquire the skills necessary to participate in our democratic processes. The major focus of the course is state civics (government, politics, participation, citizenship) and economics (microeconomics, macroeconomics, economic systems, international trade) standards. Related concepts found in the state geography and history standards are a supporting focus.

Electives:

Cooperative Education

School-to-Work activities include: Cooperative Education, Internships, and Job Shadowing. Cooperative education is a structured program integrating classroom activities (emphasis placed on employability skills) with work experiences in a field related to a student's program of study. Cooperative education is a partnership among students, educational institutions and employers, with specified responsibilities for each party.

Who is eligible to participate: Students (third year, Level III) who have completed 75% of the program, which already have a job or a good prospect for a job defined by the student's career objective.

What are the requirements: Students must be recommended by their course instructor and have a completed résumé. Attendance, grades, attitude, and behavior are considered in the decision-making process.

- Work permit (if under 18 years of age)
- Approved student transportation
- Proof of auto insurance
- Senior Portfolio obligation

- All school debts must be satisfied
- Valid PA driver's license
- Up-to-date task listing