



PENNCREST
EMPOWERING LIFE-LONG LEARNERS

Program of Study - Grades 7-12

2019-2020 School Year

Student Scheduling Guide

[Cambridge Springs Jr./Sr. High School](#)

[Maplewood Jr./Sr. High School](#)

[Saegertown Jr./Sr. High](#)

From the PENNCREST School Counselors

Dear Student and Parent or Guardian:

This guide has been designed to provide you with course descriptions as well as course requirements, electives, and credits needed to graduate from The PENNCREST School District. The following information is supplied to assist with creating an informed career path schedule for the next school year and beyond. Please consider choosing courses that not only satisfy graduation requirements, but will also help you to fulfill your career aspirations.

Extensive effort is made by your high school administrators and counselors to ensure you receive the best possible schedule. Because of the amount of time and effort on all parties concerned, schedules are permanent after the selection process occurs.

To assist students in grades 7-12, this program of studies seeks to address all individual situations. If you have any questions about your scheduling choices and cannot find an answer in this booklet, please make an appointment with your counselor.

PENNCREST School Counselors:

Cambridge Springs Jr/Sr High School	Mrs. Peterson	lpeterson@penncrest.org
Maplewood Jr/Sr High School	Mrs. Hornstein	dhornstein@penncrest.org
Saegertown Jr/Sr High School	Mrs. Watt	rwatt@penncrest.org

PENNCREST Administration

Cambridge Jr/Sr High 641 Venango Ave Cambridge Springs PA 16403 814-398-4631	Maplewood Jr/Sr High 30383 Guys Mills Rd Guys Mills PA 16327 814-337-1673	Saegertown Jr/Sr High 18079 Mook Rd Saegertown PA 16433 814-763-2615
Principal David Nuhfer Asst. Principal Megan Cunningham	Principal Ken Wolfarth Asst. Principal Erica Howick	Principal Tom Baker Asst. Principal Kylene Koper

Dr. Timothy S. Glasspool, Superintendent Kenneth Newman, Assistant Superintendent Patti Fiely, Director of Student Services 18741 State Highway 198, Saegertown, PA 16433-0808, 814-337-1613

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PENNCREST GRADING SCALE

Letter Grade	Percentage	Honors Multiplier	Advanced Placement Multiplier
A	100-90	1.1	1.20
B	89-80	1.1	1.20
C	79-70	1.1	1.20
D	65-60	1.1	1.20
F	59-0	0	0

High Honor Roll and Honor Roll

To be eligible for the *high honor roll*, a student must have a 90.00 percent average at the end of the term, semester or school year. To be eligible for the *honor roll*, a student must have an 80.00 percent average at the end of the term, semester or school year.

Class Rank

Class rank is calculated at the end of every school year after the Junior year. The calculation formula is the grade percent, multiplied by credit(s), multiplied by weight and then averaged over the student's cumulative high school career.

For example:

English 11	88.00 (percent)	x	1 credit	x	1.00	=	88%
Honors English 11	88.00 (percent)	x	1 credit	x	1.10	=	96.80%
AP English	88.00 (percent)	x	1 credit	x	1.20	=	105.60%

Class rank, Valedictorian, and Salutatorian will be calculated out to the hundredth decimal point. Transfer students will receive the median percent when letter grades are transcribed.

COURSE SELECTION AND SCHEDULE CHANGES

Every spring students in grades 6 - 11 are given course scheduling forms for the upcoming school year. Students are required to select courses for the next year after discussions with the parents, staff, and the school counselor. The student should take full advantage of the variety of available courses so that he/she is well prepared after high school.

Occasionally, despite careful planning and consideration, students change their minds about future courses. Changes in registration may be made anytime before the last day of the school year. Schedule changes are not permitted after the last day of the prior school year. If a student realizes there is an error in his/her schedule at the beginning of school, he/she must see the counselor within five days for the correction. A student is permitted to drop a high level class if student, parents, and staff agree at the end of the first 9 week grading period that the student is incapable of producing passing level work.

7TH GRADE REQUIRED COURSES

ENGLISH LANGUAGE ARTS 7

7100

Year

English Language Arts 7 is designed to provide a sound foundation of parts of speech, punctuation, capitalization and how they interact with one another to form coherent sentences. These sentences are combined to form stories, essays, paragraphs, etc. Vocabulary and literature are also utilized to broaden the student's foundation.

INTEGRATED SCIENCE 7

7400

Year

Integrated Science 7 is a course for seventh grade students covering concepts from Physical, Life, and Space Sciences. Emphasis will be put on the interrelatedness of these disciplines, and on the use of the scientific method to solve problems. Attempts will be made to help students think critically about science issues, to develop reading, writing, listening, and questioning skills in science and to interpret scientific diagrams accurately.

MATH 7

7300

Year

Math 7 focuses on operations with rational numbers, solving single variable equations and expressions, proportional reasoning, angle relationships, area, perimeter, volume, surface area, comparing data sets, and probability of independent events.

MATH JR HIGH

7301

Year

Junior High Math covers the topics of Math 7 in addition to exponent properties, the real number set, the Pythagorean Theorem, linear equations, and coordinate geometry transformations. This course is for motivated students who plan to take Algebra 1 in 8th grade.

WORLD GEOGRAPHY 7

7200

Year

World Geography 7 is designed to introduce students to the human, physical, and political geography of the world and to trace the development of human history from 500 to 1500.

PHYSICAL EDUCATION 7

7600

Semester

Physical Education 7 introduces students to various sports and recreational activities. Particular emphasis is placed on sportsmanship and participation along with limited emphasis on skill performance and knowledge of games. Activities include soccer, flag football, basketball, volleyball, tumbling, floor hockey, indoor recreation, physical fitness and climbing rock wall, among other possibilities.

COMPUTERS 7

7900

Semester

Computers 7 will focus on computer and technology skills that will be used throughout the students' school career (ex. Career Cruising, Google Suite, PowerSchool, etc.). Students will also learn internet and CIPA compliance, appropriate social media usage and online ethical behavior.

SOCIAL EMOTIONAL LEARNING CURRICULUM

Flexible Year

The Second Step program for Kindergarten through Grade 8 is a universal, classroom-based program designed to increase students' school success and decrease problem behaviors by promoting social-emotional competence and self-regulation. It teaches skills that strengthen students' ability to learn, have empathy, manage emotions, and solve problems. The program targets key risk and protective factors linked to a range of problem behaviors. Equipping students with Second Step skills creates a safer, more respectful learning environment that promotes school success for all.

7TH GRADE- 9 WEEK ROTATION COURSES

ART 7

7750

9 Week Rotation

Art 7 is geared to give students a variety of experiences in art. Through various studio projects, students become familiar with basic art processes and techniques. Students are introduced to the elements of art, art history, and art criticism. This course is designed to give students an overview of the art field and to help them gain confidence in their own expressive abilities.

GENERAL MUSIC 7

7802

9 Week Rotation

General Music 7 gives students an introduction to and mastering of several aspects of music. Major composers and examples for each period are discussed and analyzed. Students also familiarize themselves with styles of music. References to current music are used to relate earlier musical periods to similar forms and trends of today. Additionally students will be introduced to basic guitar instruction.

FAMILY & CONSUMER SCIENCE 7

7710

9 Week Rotation

The Family and Consumer Science 7 course provides a basic introduction to foods and nutrition, clothing construction, and personal development skills.

DESIGN & BUILD 7

7720

9 Week Rotation

Design & Build is an activity based course that introduces students to the basic systems of communications, manufacturing, construction, transportation and bio-related fields. Students will study the evolution of technology, invention and innovation, impacts of technology, a systems approach and various other problem solving methods.

7TH GRADE FLEX PERIOD

JUNIOR HIGH BAND

5802

Flexible Year

Junior High Band provides students with an opportunity to participate in a large instrumental ensemble. The students learn rhythm, dynamics and articulation. At least two public concerts are presented. Attendance at performances is required to fulfill class requirements.

JUNIOR HIGH CHORUS

5800

Flexible Year

Junior High Chorus develops and utilizes student's singing voice to its fullest potential, to perform as an individual and as a member of the larger vocal ensemble to promote self-confidence, stage presence and a feeling of team cooperation. At least two public concerts are presented. Attendance at performances is required to fulfill class requirements.

JUNIOR HIGH BAND & CHORUS

5802 & 5800

Year

For students who desire to participate in both Band and Choir.

READING REINFORCEMENT and/or MATH REINFORCEMENT

7110/7310

Flexible Year

The purpose of a reinforcement course is to provide students who have not yet met proficiency on state level tests and assessments the opportunity to receive additional instruction and support in the areas of reading and/or math. These courses are designed to examine student data and provide instruction to students in areas in which they are demonstrating learning gaps. Students may benefit from one, or both reinforcement content areas and teachers will collaborate to provide both content areas if students demonstrate the need for both reading and math.

ACADEMIC ENRICHMENT

0001

Flexible Year

The purpose of this course is to provide students who have met proficiency on state level tests and/or assessments the opportunity to receive enrichment instruction and additional opportunities for learning. This course is designed to examine student skills and/or interests and provide instruction to extend or expand upon learning concepts. Teachers will collaborate to make decisions about enrichment ideas and projects that will vary based on student need/interest.

8TH GRADE REQUIRED COURSES

MATH 8 8300

Year
Math 8 will focus on numbers and operations, rational and irrational numbers, integer exponents and scientific notation, geometry skills, solving multi-step single variable equations, data and modeling lines of, linear equations and functions and systems of linear equations.

ALGEBRA 1 5305

Year
Algebra I includes a detailed discussion of the four fundamental operations with rational numbers including negatives, solving equations, inequalities, and word problems. An introduction to the Cartesian coordinate plane provides an understanding of functions and their graphs. Multiplying and factoring polynomials leads to working the four basic operations on rational expressions. Irrational solutions of the quadratic equation are developed.
*Credit to be reflected on high school transcript.

AMERICAN CULTURES I 8200

Year
American Cultures I is designed to help students develop an understanding of the history and important contributions of the western world. It includes discussions about history, geography and economic contributions made by western cultures and how they impact the US today.

ENGLISH LANGUAGE ARTS 8 8100

Year
English Language Arts 8 is designed to emphasize the development of writing skills and elimination of common usage and grammatical errors through a variety of writing experiences. Studies of drama, poetry, short stories, and novels are also included to enrich reading skills and provide opportunities for students to respond to literature.

INTEGRATED SCIENCE 8 8400

Year
Integrated Science 8 investigates topics dealing with the earth and its processes. Students will gain an understanding and appreciation for earth through activities and investigations that ask students to use and develop skills in observing, classifying, measuring, inferring, interpreting, identifying and predicting. Major topics presented include matter, rocks and minerals, changes in the Earth, map interpretation and the Earth-Moon system. Students are expected to continue to develop critical thinking and application skills as they relate to science concepts and thought.

HEALTH 8 8603

Semester
Health is designed to expose students to a variety of current health-related issues with emphasis on promoting healthy lifestyles through decision-making processes. The topics include wellness, nutrition, substance abuse, AIDS, physical fitness, and human growth and development.

PHYSICAL EDUCATION 8

8600

Semester

Physical Education introduces students to various sports and recreational activities. Particular emphasis is placed on sportsmanship and participation along with limited emphasis on skill performance and knowledge of games. Activities include soccer, flag football, basketball, volleyball, tumbling, floor hockey, indoor recreation, and outdoor recreation.

SOCIAL EMOTIONAL LEARNING CURRICULUM

Flexible Year

The Second Step program for Kindergarten through Grade 8 is a universal, classroom-based program designed to increase students' school success and decrease problem behaviors by promoting social-emotional competence and self-regulation. It teaches skills that strengthen students' ability to learn, have empathy, manage emotions, and solve problems. The program targets key risk and protective factors linked to a range of problem behaviors. Equipping students with Second Step skills creates a safer, more respectful learning environment that promotes school success for all.

8TH GRADE ELECTIVE COURSES

FRENCH I (8th-12th grade)

5501

Year

French I provides students with skills in regards to speaking, writing, reading, and listening are emphasized. There is an introduction to basic grammar, development of more extensive vocabulary, and culture.

*Credit to be reflected on high school transcript.

SPANISH I (8th-12th grade)

5511

Year

Spanish I provides students with skills in regards to speaking, writing, reading, and listening are emphasized. There is an introduction to basic grammar, development of more extensive vocabulary, and culture.

*Credit to be reflected on high school transcript.

JUNIOR HIGH BAND

5802

Flexible Year

Junior High Band provides students with an opportunity to participate in a large instrumental ensemble. The students learn rhythm, dynamics and articulation. At least two public concerts are presented. Attendance at performances is required to fulfill class requirements.

JUNIOR HIGH CHORUS

5800

Flexible Year

Junior High Chorus develops and utilizes student's singing voice to its fullest potential, to perform as an individual and as a member of the larger vocal ensemble to promote self-confidence, stage presence and a feeling of team cooperation. At least two public concerts are presented. Attendance at performances is required to fulfill class requirements.

JUNIOR HIGH BAND & CHORUS

5802 & 5800

Year

For students who desire to participate in both Band and Choir.

READING REINFORCEMENT and/or MATH REINFORCEMENT

8110/8310

Flexible Year

The purpose of a reinforcement course is to provide students who have not yet met proficiency on state level tests and assessments the opportunity to receive additional instruction and support in the areas of reading and/or math. These courses are designed to examine student data and provide instruction to students in areas in which they are demonstrating learning gaps. Students may benefit from one, or both reinforcement content areas and teachers will collaborate to provide both content areas if students demonstrate the need for both reading and math.

ART 8

8750

Semester

Art provides students with a variety of experiences in art. Through various studio projects, students become familiar with basic art processes and techniques. Students are introduced to the elements of art, art history, and art criticism. This course is designed to give students an overview of the art field and to help them gain confidence in their own expressive abilities.

FAMILY & CONSUMER SCIENCE

8710

Semester

Family and Consumer Science provides a basic introduction to the six areas of Home Economics. Emphasis is placed on foods and nutrition, clothing construction, personal development, child care and interior design while including consumer decision making in all areas.

COMPUTERS 8

8900

Semester

Computers 8 is an introduction to web design, programming, graphics, and video production. Students will participate in a variety of hands on projects.

MANUFACTURING/ENGINEERING 8

8700

Semester

Manufacturing/Engineering 8 is an activity based course that focuses on the application of tools, materials and processes of communication, manufacturing, construction and transportation systems. Students will study the ways materials, energy, and information are processed to transmit information, build structures, make products and move passengers and freight.

THEMATIC READING SERIES

8130

Semester

Thematic Reading Series is a course organized around a central theme. Each activity will have a main focus toward the thematic idea. They focus on student choice and ownership; extend beyond the classroom walls; involve a variety of reading and writing opportunities; promote discussion and collaboration; and build upon students' interests, abilities, background, and language development. Cross-curricular themes integrate the language arts (reading, writing, speaking, listening, viewing, and thinking) across a variety of content areas, such as science, social studies, art, and so forth. Examples could include: The party's over-teen angst and drama, impact of superheroes on culture, progression of video gaming and digital technology, wizardry and fantasy, etc. Themes may be voted upon by student prior to offering the course, or designed by the students as they begin the course.

Semester

Focuses on the ability to access, analyze, evaluate and create media in a variety of forms. Media literacy builds students understanding of the role of media in society, as well as essential skills of inquiry and self expression necessary for students in democracy.

JR. HIGH SCHEDULE

<u>7TH GRADE SCHEDULE</u>	<u>8TH GRADE SCHEDULE</u>
1. English Language Arts 7 2. Math 7 or Jr. High Math 3. Integrated Science 7 4. World Geography 7 5. Rotation (Quarter) (General Music, Art, Family Consumer Science, Design Build) 6. Physical Education (Sem) & Computers (Sem) 7. 7 th grade Flex period. Reading Reinforcement &/or Math Reinforcement OR Band &/or Chorus OR Academic Enrichment	1. English Language Arts 8 2. Math 8 or Algebra I 3. Integrated Science 8 4. American Cultures I 5. Health (Sem) & Physical Education (Sem) 6. <u>Elective</u> or Reading &/or Math Reinforcement 7. <u>Elective</u> <u>Full Year Electives</u> - Spanish I - French I - Band - Chorus - Band & Chorus <u>Semester Electives</u> - Manufacturing/Engineering & Computers - Art & Family Consumer Science - Thematic Reading Series & Media Literacy

Grades 9 -12

REQUIREMENTS FOR GRADUATION

Graduation is based on the successful completion of the required number of credits and PA state assessments (Keystones).

Below you will find the credit requirements set by the PENNCREST School District Board of Education. The Board requires that each candidate for graduation shall have earned credits in accordance with the following chart:

Subject Area	Students Graduating in 2019-2020 and Beyond
Arts and Humanities	2 credits
English Language Arts	4 credits
Health	.5 credit
Mathematics	3 credits
Physical Education	1 credit
Science	3 credits
Social Studies	3 credits
Electives	9 credits
CCCTC	AM-4 credits PM-3 credits
Total credits required for graduation	25.5 credits

2019-2020 REQUIRED COURSES

The following courses are required for students to take each school year. If a student wishes to substitute a course with a more challenging course please discuss with your counselor. Discuss AP course substitution of a required course with your counselor.

9th Grade	10th Grade	11th Grade	12th Grade
English Language Arts 9	English Language Arts 10 (Keystone)	English Language Arts 11	English Language Arts 12
Math or Algebra I (Keystone)	Math	Math	
Global Science	Biology (Keystone)	Science	
Physical Education	Physical Education	Physical Education	Physical Education
American Cultures II	American Cultures III	World History	Government/Economics
	Health		

WEIGHTED COURSES

To recognize their academic degree of difficulty, courses will be identified as “weighted” and a “weighted” grade will be assigned.

Weighted Course: Final grade x credit value x 1.10

AP Course: Final grade x credit value x 1.20

Summer work may be required as part of the AP curriculum. Registration for AP exams occurs in the Fall. Students seeking a fee waiver for the exam should contact their school counselor.

Honors English Language Arts 10/11/12	AP Physics C-Mechanics	Advanced Biology and AP Biology
Accounting II	AP United States History	Precalculus
Geometry	AP World History	Physiology/Anatomy
Algebra II	CCCTC Electronics (3 rd year)	Physics
AP English Language/Composition	Chemistry I, II	Spanish III, IV
AP English Literature/Composition	AP Computer Programming I, II	Statistics
AP Calculus AB	French III, IV	Trigonometry

National Honor Society

To be eligible for NHS, students must have a 90.00 percent cumulative grade average at the end of his/her Sophomore year or any semester thereafter. The candidates are selected on the basis of scholarship, service, leadership and character. She/he must meet the deadline for submitting an activity sheet and an essay. All submissions are reviewed by the council advisory board for approval.

Dual Enrollment Options

PENNCREST students in grades 10 - 12 have the option of taking college level courses from several local universities and colleges. The following is a list of school options that students can access to take college level courses at a significant tuition reduction. Please see your school counselor for more information or feel free to look at the websites listed below for the most up-to-date course offerings in each program. Each school may request any or all of the following documents in order to decide if a student meets criteria for acceptance: transcript, PSAT/SAT/ACT, Keystone or PSSA data showing proficiency.

Allegheny Early Access: This program is only offered to students during the senior year

- Allegheny College
- one course per semester for free + textbook
- student must have own transportation
- students have a limited list of options

Northern Pennsylvania Regional College: <https://regionalcollegepa.org/>

- all courses are transcribed by Gannon University
- typically cost \$180 per course + textbook
- student may be required to provide own transportation
- some courses may be scheduled after school at a PENNCREST high school
- classes are typically after school hours

Clarion University Online Courses:

<http://www.clarion.edu/admissions/undergraduate/dual-enrollment.html>

- students can complete coursework at home
- typically \$345+\$50 registration fee + book

Regional Choice Initiative(RCI):

<http://www.iu5.org/parent-student-services/regional-choice-initiative>

- Edinboro University professors
- typically cost about \$300-350 per course + textbook
- live professor, most courses offered at the CCCTC
- students ride the CCCTC bus to and from the Tech Center

RCI Proposed courses at the CCCTC for 2019-2020

Fall 2019 – Monday, Wednesday, Friday

Course #	Course	Time	University
HIST 262	US History Since 1865	8:05-8:55	Edinboro
HPE 101	You Make the Call: Controversies and Ethical Issues in Sports	8:05-8:55	Edinboro
ECED 150	Child Development	9:05-9:55	Edinboro
PSYC 101	Introduction to Psychology	9:05-9:55	Edinboro
ENGL 101	College Writing Skills	10:05-10:55	Edinboro
SOC 207	Contemporary Social Problems	10:05-10:55	Edinboro

Spring 2020 – Monday, Wednesday, Friday

Course #	Course	Time	University
CRIM 100	Introduction to Criminal Justice	8:05-8:55	Edinboro
SEDU 271	Multiculturalism in American Schools	8:05-8:55	Edinboro
ECED 200	Planning, Designing & Managing the Early Childhood Learning Environment	9:05-9:55	Edinboro
POLI 101	Intro to American Government	9:05-9:55	Edinboro
GEOS 104	Introduction to Earth Environments	10:05-10:55	Edinboro
HPE 101	You Make the Call: Controversies and Ethical Issues in Sports	10:05-10:55	Edinboro

FOR STUDENTS CONSIDERING ATTENDING COLLEGE

Most colleges require College Entrance Exams. Students may choose the ACTs or the SATs.

- SAT should be taken by students in the Spring of their Junior year. Students need to create an account at collegeboard.org where they can sign up and choose their testing date and site.
- ACT should be taken by students who are strong in History, Science, English and Math the Spring of their Junior year. Students need to create an account at ACT.org so they can sign up and take the exam.

High School Assessments

Armed Services Vocational Aptitude Battery (ASVAB) - 11th grade

* All Juniors, no cost to student/family

PSAT NMSQT - 10th and 11th grade

*All Sophomores, no cost to student/family

*Juniors may choose to opt-in, no cost to student/family

Advanced Placement (AP)

*Students may choose to participate in the end of course exam

*Student/Family is required to pay for half of AP tests cost

NCAA Eligibility

It is very strongly suggested that the summer between Junior and Senior year, parents and their child should visit the schools they may wish to attend after graduation. This should be scheduled through the College/University/Trade School admissions office.

Students that may be considering collegiate sports should start planning during his/her freshman year. This could avoid possible academic ineligibility due to not taking the appropriate course during high school. Please check to NCAA website: <http://www.ncaa.org/student-athletes/future> ; [NCAA Eligibility Guide](#)

Potential scholarship athletes should contact NCAA Eligibility Center for registration information. **This must be done by you and your parents.** It can be done during the summer after your junior year of high school at the following NCAA Eligibility Center Online site: <https://web3.ncaa.org/>

HIGH SCHOOL COURSE OFFERINGS

Due to insufficient student interest or staffing restrictions all courses may not be offered annually.

ART

ART I (9 th -12 th grade) Year - 1 credit This is a introductory course in art, with a heavy emphasis on drawing using various media. Students will develop skills and techniques that are utilized in subsequent art electives. Students will learn the elements and principles of design and begin to explore a variety of two-dimensional and three-dimensional media.	5000
ART II (10 th - 12 th grade) Prerequisite: Art I Year - 1 credit Art II builds upon the foundational skills learned in Art I, adding additional media, skills and techniques as well as a review of those previously learned. Students will continue to apply the elements and principles of design and work more extensively and demonstrate greater proficiency with a variety of two-dimensional and three-dimensional media. Recommended prerequisite: achievement of B or above in Art I	5001
ART III (11 th - 12 th grade) Prerequisite: Art I, II Year - 1 credit Art III is an advanced course for the more serious-minded art student. Students will refine their skills and exhibit greater professionalism in their work. Some projects will be student-directed and designed, developing the ability to work independently. A sketchbook may be required. Recommended prerequisite: achievement of B or above in Art II.	5002
ART IV (12 th grade) Prerequisite: Art I, II, III Year - 1 credit Art IV is an advanced course aimed at students who are considering continuing their art education beyond high school. Art IV students will be given greater creative freedom. A portion of the year will be student-directed and students must have the ability to work independently. A sketchbook may be continued. Recommended prerequisite: Achievement of B or above in Art III.	5003
ART INDEPENDENT STUDY (11 th -12 th grade) Year - 1 credit This course is designed for the students that plan to continue their art education beyond high school. Core activities will include career research and/or educational research and assembling the student's portfolio. Students will work individually within the agreed contract with the instructor. Essential contents and skills will be student-driven choices in drawing, printmaking, design, jewelry, crafts, graphics, painting, ceramic, photography and technology. Recommended Prerequisite: Achievement of A in Art II and teacher pre-approval.	5007
ART & TECHNOLOGY (10 th -12 th grade) Year - 1 credit This course utilizes the latest in computer technology used in the graphic design field today. Students will receive a foundational knowledge of basic animation, Photoshop, Illustrator, and Macromedia iLife Suite of Apple products to complete specific projects. Recommended Prerequisite: Achievement of B or above in Art I.	5008

BUSINESS & TECHNOLOGY

ACCOUNTING I (10 th -12 th grade)	5912
Year - 1 credit Areas of study include; complete accounting cycle for service business organized as a sole proprietorship and merchandising organized as a partnership; payroll procedures and banking activities.	
ACCOUNTING II (11 th -12 th grade) Prerequisite: Accounting I	5913
Year - 1 credit Topics previously introduced in Accounting I are expanded to include departmentalized accounting procedures, accounting control systems, general accounting adjustments, corporate accounting, and payroll procedures.	
ACCOUNTING III (12 th grade) Prerequisite: Accounting II	5914
Year - 1 credit Topics previously introduced in Accounting II are expanded to include departmentalized accounting procedures, accounting control systems, general accounting adjustments, corporate accounting, and payroll procedures.	
INTRODUCTION TO BUSINESS	5920
Year - 1 credit Introduction to Business provides opportunities to study careers, jobs, banking, insurance, investments, basic economics, and time management. The course is an introduction to other courses offered in the business curriculum.	
SPORTS & ENTERTAINMENT MARKETING	5924
Semester – .5 credit This course will introduce the students to the intriguing world of sports and entertainment from the perspective of marketing. Students will recognize the customer-oriented nature of marketing and analyze the impact of marketing activities on sports and entertainment.	
PERSONAL FINANCE I	5917
Semester – .5 credit Students will discover new ways to maximize their earning potential, explore skills for the wise use of credit, and gain insight into the different ways of investing money.	
PERSONAL FINANCE II	5918
Semester – .5 credit Students will build upon knowledge learned in Personal Finance I in ways to maximize their earning potential, explore skills for the wise use of credit, and gain deeper insight into ways to invest money.	
WEB PAGE DESIGN	5905
Semester - .5 credit Students will be given understanding on how the Web operates as well as limited HTML knowledge, prior to learning basic design strategies and software to create effective, attention grabbing web pages. Previous computer and word processing experience is desirable. Students will then use knowledge gained to use Web editing software to apply design and creation principles to produce websites for a variety of situations and purposes.	
BUSINESS LAW (10 th -12 th grade)	5904
Semester - .5 credit This semester course is designed to introduce students to the terminology and concepts of everyday business law and how the law will affect them as consumers, citizens, employers and employees. Students will learn how America's legal system is structured, as well as how and why laws are created. The emphasis is placed on the law of contracts and the legal consequences of decision-making.	

MARKETING (11th-12th grade)

5923

Semester - .5 credit

This semester course is designed to explore the marketing practices and principles at both the retail and industrial level. It will also utilize the fundamentals of mathematics and applications needed to pursue marketing careers. Topics will include: selling, promotion, distribution, pricing and purchasing.

COMPUTER APPLICATIONS I

5906

Semester - .5 credit

Students will explore basic computer software packages (Word, Publication, Spreadsheet, and Database) using hands-on real life exercises and projects. Students will learn to apply the main principles used in the software with projects, assignments, and other activities.

COMPUTER APPLICATIONS II (10th-12th grade)

5907

Semester - .5 credit

Students will be provided a hands-on experience with computer software applications. Wide ranges of applications through Microsoft Office are explored including: word processing (Word), database programs (Access), and presentations (PowerPoint). In Computer Applications II, students will work with more advanced levels of tasks and assignments.

AP COMPUTER PROGRAMMING I, II (10th-12th grade) Prerequisite: Algebra I

5909, 5910

Year - 1 credit, weighted

These courses introduces the student to computer programming using object-oriented programming languages. They integrate techniques of algorithm design and development, procedure and function use, good programming style, testing, and debugging. Topics will include: data types, control structures, subprograms, documentation, and coding techniques.

ENGLISH LANGUAGE ARTS

ENGLISH LANGUAGE ARTS 9

9100

Year - 1 credit

The Pennsylvania Core Standards establish a minimum level of competency for all students. Learners build a staircase of skills and concepts through engagement and interaction with increasingly complex texts with proficiency, efficiency and independence as a reader, writer, speaker, and listener.

The English Language Arts standards emphasize the use of informational and literary texts with a focus on domain specific vocabulary. Learners ground their inferencing, analyses, and representations of thinking on textual evidence from one to multiple sources. In the learning continuum, skills build to bring learners to independence as critical thinkers, writers, and users of technology in the 21st century - thus, the pathway to college and career readiness.

- In ninth grade, students focus on analysis of reading and analytical writing grounded in evidence from text. Focusing on deciphering perceptions of truth and reality, they determine and evaluate an author's ideas, argument, specific claims, and counterclaims.
- Students examine reasoning, both others' and their own, for validity and relevant evidence. They also identify fallacious reasoning and false statements.
- Ninth graders analyze an author's use of rhetoric to advance a point of view or purpose. Students analyze how the author unfolds an analysis or series of ideas or arguments, including the order in which the points are made, how they are introduced and developed, as well as the connections made between them.
- Students acquire and use with independence academic and domain specific words at the college and career readiness level.

ENGLISH LANGUAGE ARTS 10

0100

Year - 1 credit

The Pennsylvania Core Standards establish a minimum level of competency for all students. Learners build a staircase of skills and concepts through engagement and interaction with increasingly complex texts with proficiency, efficiency and independence as a reader, writer, speaker, and listener.

The English Language Arts standards emphasize the use of informational and literary texts with a focus on domain specific vocabulary. Learners ground their inferencing, analyses, and representations of thinking on textual evidence from one to multiple sources. In the learning continuum, skills build to bring learners to independence as critical thinkers, writers, and users of technology in the 21st century - thus, the pathway to college and career readiness.

- Students analyze various forms of literature, including fiction, non-fiction and other mediums, on a variety of levels including theme development, author's assumptions and beliefs, complex development, point of view and its impact on meaning and text structure and rhetoric, while using textual evidence and their own life experiences.
- Students create their own writing samples using academic vocabulary, sufficient facts, concrete details, quotations and other information with an awareness of projected audience knowledge.
- Students make important connections and distinctions, using varied transitions to link major sections of the text and provide description and evidence in their pieces of writing to create a cohesive and coherent whole in all writing.

Students also initiate and engage in meaningful collaborative discussion on grade-level topics heightened by their ability to reason, provide evidence, and evaluate the views of others while exploring their own beliefs and assumptions.(Culminating event for the course will be the Keystone Literature Exam.)

HONORS ENGLISH LANGUAGE ARTS 10

0110

Year - 1 credit, weighted

The Pennsylvania Core Standards establish a minimum level of competency for all students. Learners build a staircase of skills and concepts through engagement and interaction with increasingly complex texts with proficiency, efficiency and independence as a reader, writer, speaker, and listener.

The English Language Arts standards emphasize the use of informational and literary texts with a focus on domain specific vocabulary. Learners ground their inferencing, analyses, and representations of thinking on textual evidence from one to multiple sources. In the learning continuum, skills build to bring learners to independence as critical thinkers, writers, and users of technology in the 21st century - thus, the pathway to college and career readiness.

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Students also initiate and engage in meaningful collaborative discussion on grade-level topics heightened by their ability to reason, provide evidence, and evaluate the views of others while exploring their own beliefs and assumptions.(Culminating event for the course will be the Keystone Literature Exam.)

ENGLISH LANGUAGE ARTS 11

1100

Year - 1 credit

The Pennsylvania Core Standards establish a minimum level of competency for all students. Learners build a staircase of skills and concepts through engagement and interaction with increasingly complex texts with proficiency, efficiency and independence as a reader, writer, speaker, and listener.

The English Language Arts standards emphasize the use of informational and literary texts with a focus on domain specific vocabulary. Learners ground their inferencing, analyses, and representations of thinking on textual evidence from one to multiple sources. In the learning continuum, skills build to bring learners to independence as critical thinkers, writers, and users of technology in the 21st century - thus, the pathway to college and career readiness.

- Students analyze and evaluate perspective in connection to purpose, audience, and task (biases).
- They cite strong, thorough textual evidence based on and related to the author’s implicit and explicit assumptions and beliefs.
- Emphasis is placed on the analysis of the interaction between and development of themes or ideas over the course of a text or multiple texts.
- Students analyze and evaluate the impact of an author’s rhetorical choices (i.e., point of view, purpose, style) on their writing and reasoning, including claims and counterclaims, as well as precise language such as metaphor, simile, and analogy.
- They analyze seminal and foundational U.S. and world texts based on reasoning and rhetoric, as well as works of literature that reflect a variety of genres and major periods.
- Students conduct sustained research projects and/or make strategic use of digital media to answer a question by evaluating, organizing and integrating multiple sources and complex ideas to make informed decisions on how the specifics relate to the whole.

HONORS ENGLISH LANGUAGE ARTS 11

1110

Year - 1 credit, weighted

The Pennsylvania Core Standards establish a minimum level of competency for all students. Learners build a staircase of skills and concepts through engagement and interaction with increasingly complex texts with proficiency, efficiency and independence as a reader, writer, speaker, and listener.

The English Language Arts standards emphasize the use of informational and literary texts with a focus on domain specific vocabulary. Learners ground their inferencing, analyses, and representations of thinking on textual evidence from one to multiple sources. In the learning continuum, skills build to bring learners to independence as critical thinkers, writers, and users of technology in the 21st century - thus, the pathway to college and career readiness.

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- Students conduct sustained research projects and/or make strategic use of digital media to answer a question by evaluating, organizing and integrating multiple sources and complex ideas to make informed decisions on how the specifics relate to the whole.

ENGLISH LANGUAGE ARTS 12

1200

Year - 1 credit

The Pennsylvania Core Standards establish a minimum level of competency for all students. Learners build a staircase of skills and concepts through engagement and interaction with increasingly complex texts with proficiency, efficiency and independence as a reader, writer, speaker, and listener.

The English Language Arts standards emphasize the use of informational and literary texts with a focus on domain specific vocabulary. Learners ground their inferencing, analyses, and representations of thinking on textual evidence from one to multiple sources. In the learning continuum, skills build to bring learners to independence as critical thinkers, writers, and users of technology in the 21st century - thus, the pathway to college and career readiness.

- Students move towards academic independence and college-and-career readiness.
- Students grapple with demanding texts by integrating previously learned skills to analyze and evaluate the writer’s premise, purpose, and argument in both informational and literary text.

- Students conduct sustained research and engage in sharp distinctive writing while making informed decisions, solving problems, evaluating the credibility and accuracy of sources, and noting discrepancies among the resources.
- Using previously learned competencies, students master skills such as asking their own questions, solving their own problems, and leading their own class discussions.
- Students continue to develop the skills in reading, writing, speaking, and listening to master purposeful and independent expression.

HONORS ENGLISH LANGUAGE ARTS 12

1210

Year - 1 credit, weighted

The Pennsylvania Core Standards establish a minimum level of competency for all students. Learners build a staircase of skills and concepts through engagement and interaction with increasingly complex texts with proficiency, efficiency and independence as a reader, writer, speaker, and listener.

The English Language Arts standards emphasize the use of informational and literary texts with a focus on domain specific vocabulary. Learners ground their inferencing, analyses, and representations of thinking on textual evidence from one to multiple sources. In the learning continuum, skills build to bring learners to independence as critical thinkers, writers, and users of technology in the 21st century - thus, the pathway to college and career readiness.

- Students move towards academic independence and college-and-career readiness.
- Students grapple with demanding texts by integrating previously learned skills to analyze and evaluate the writer's premise, purpose, and argument in both informational and literary text.
- Students conduct sustained research and engage in sharp distinctive writing while making informed decisions, solving problems, evaluating the credibility and accuracy of sources, and noting discrepancies among the resources.
- Using previously learned competencies, students master skills such as asking their own questions, solving their own problems, and leading their own class discussions.
- Students continue to develop the skills in reading, writing, speaking, and listening to master purposeful and independent expression.

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION

1213

Year - 1 credit, AP weighted

The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytical and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. Students will receive the AP weighting only if the AP exam is taken. Students not taking the AP exam will receive the honors weighting for the course.

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION

1212

Year - 1 credit, AP weighted

This is a course designed to allow secondary students to be exposed to reading and writing of works typically found in the college curriculum. Students will be encouraged to take the national AP Exam that may allow them to gain college credit. Through reading selected texts, students will critically analyze and deepen their understanding of how writers use skills to provide both meaning and entertainment. Students will consider structure, style, themes, figurative language, imagery, symbolism, tone and other significant elements of writing. The writings will also vary in style and structure, focusing on becoming an effective evaluator of a literary piece (student and professional), and therefore the student must be able to understand and explain the complexity of formal and informal writing. Students will receive the AP weighting only if the AP exam is taken. Students not taking the AP exam will receive the honors weighting for the course.

JOURNALISM I (9th-12th grade)

5101

Year - 1 credit

Journalism I students will learn the various media skills necessary to produce the school's publications. Students will learn their rights and responsibilities as high school journalists and develop student leadership skills, collaboration skills, and

decision-making skills. The course is for students who have a desire to improve their critical thinking and writing skills, advance their understanding of journalistic writing and reporting, and increase their access to quality, complex reading pieces in the world around them. Units of study will include history and ethics of journalism, writing and reporting, gathering news and interviewing, writing news stories and leads, covering and writing features and sports/student activities stories, writing editorials/opinions, photojournalism, marketing and advertising, and page layout and graphic design. Journalism is a writing intensive course.

JOURNALISM II (10th-12th grade) Prerequisite: Journalism I

5102

Year - 1 credit

Journalism II will build upon the skills and techniques taught in the first year course. Second year journalism students will continue to develop their skills in reporting, interviewing, layout and design, photojournalism, and advertising. Primary focus of the course will be production of *school-based media*, including print and online versions, as well as broadcast/podcast. Second year staff members will be encouraged to apply for leadership positions on the publication and submit their work for critiques by outside organizations. Staff members will be expected to write independently, meet deadlines, commit time outside the school day, be self-motivated, and mentor first year journalism students.

JOURNALISM III (11th-12th grade) Prerequisite: Journalism II

5103

Year - 1 credit

Journalism III is a leadership level course that can only be taken after successful completion of Journalism I and II. In this course, students will assume leadership positions. They will initiate and effectively execute editorial board meetings; learn to give and receive constructive feedback to improve quality of publications; communicate effectively to raise funds for publications through various means and administer financial responsibilities of the publications; experience all aspects of leadership for publication, including: implementing new initiatives, preparing entries for contests, creating new positions/features, improving effectiveness of staff members, establishing and maintaining relationships with administrators/outside sources, etc., serving as resources for other publications, and joining and participating in student publication groups.

YEARBOOK I: (9th-12th grade)

5106

Year - 1 credit

Students will publish the school yearbook. The course will require a commitment outside of class and afterschool for selling of ads and editing as well as fundraising. Students will learn how to write features, interviewing techniques, page layout, photojournalism, and advertising. Staff members will also be required to attend various school related activities to take pictures. Staff members will be expected to write independently, meet deadlines, commit time outside the school day and be self-motivated.

YEARBOOK II, III: (10th-12th grade)

5107-5108

Year - 1 credit

Students will create the school yearbook. The course requires a serious commitment outside of class, after school and summer for selling of ads, write independently, meet deadlines editing as well as fundraising and be self-motivated. Second year staff members will have the responsibility of training the new staff members and will serve as section editors, master photographers, photo editors and decision makers. Students will do a large photography project and instructions will be heavy in design layout, copywriting, editing and techniques in photography.

YEARBOOK INDEPENDENT STUDY

5110

Year - 1 credit

Students will create the school yearbook. The course requires a serious commitment outside of class, after school and summer for selling of ads, write independently, meet deadlines editing as well as fundraising and be self-motivated. Second year staff members will have the responsibility of training the new staff members and will serve as section editors, master photographers, photo editors and decision makers. Students will do a large photography project and instructions will be heavy in design layout, copywriting, editing and techniques in photography.

FAMILY AND CONSUMER SCIENCES

FAMILY AND CONSUMER SCIENCE I	5700
Semester - .5 credit This is an introduction to all areas of Family and Consumer Sciences that provides a foundation for continuous personal development. Focus is on the role of the individual and family in the areas of consumerism, nutrition, foods, and child development. This course is a prerequisite for all other Family and Consumer Science courses.	
INTRODUCTION TO FOODS (10 th -12 th grade)	5702
Year - 1 credit This course is designed to develop the student's knowledge of basic food preparation techniques, food buying, food safety and food storage skills. The primary goal is to enable the students to explore an in-depth study of the different food preparation methods in many different food categories. A focus will also be put on the discussion of kitchen safety, sanitation, and the responsibilities and working in collaborative groups.	
INTERMEDIATE FOODS (11 th -12 th grade) Prerequisite: Introduction to Foods	5703
Year - 1 credit This course will be a continuation of the study of food preparation skills and the food categories. There will also be a focus of basic nutrition to enable the students to provide food for his/her personal health and fitness. A primary goal is to become efficient in meal planning and preparations for individuals and families.	
INDEPENDENT LIVING (10 th -12 th grade)	5709
Year - 1 credit A comprehensive course covering units of personal finances, balancing a checkbook, establishing a budget, use of credit, consumer rights, finding a job and interviewing. Renting an apartment, reading ads, insuring a car and home, basic care of clothing, sewing, nutrition and use of kitchen appliances will also be covered.	
ADVANCED FOODS (12 th grade) Prerequisite: Intermediate Foods	5704
Year - 1 credit This course is designed for the students with a strong interest in exploring careers in the foods/hospitality industry. It will focus on advanced skills and creativity in selecting, preparing, garnishing and serving foods. These skills will be practiced in projects such as cake decorating and creating a restaurant setting. Developing menus for special occasions and creating fine dining atmospheres are the primary goals.	

HEALTH AND PHYSICAL EDUCATION_(Required every year)

PHYSICAL EDUCATION	5608
Semester - .5 credit Physical Education class is designed to promote personal physical fitness, enhance knowledge of a variety of games, develop basic skills, provide enjoyment, and relieve stress. A basic understanding of team sports and individual sports is emphasized so that the student may acquire knowledge for use in lifetime activities and achieve a positive attitude toward physical fitness. All students must change into appropriate gym clothes and participate in all activities.	
INDEPENDENT PHYSICAL FITNESS (10 th -12 th grade)	5603
Semester - .5 credit Occasionally a student may need this option due to scheduling conflicts. This course must be approved by a PE teacher and the school counselor.	

EXERCISE PHYSIOLOGY (11th-12th grade)

5607

Semester - .5 credit

During this course students will be introduced to the human movement system (nervous system, skeletal system, and muscular system), and cardiorespiratory system. They will explore how the body responds to exercise and the effects exercise has on these systems. Students will learn concepts related to flexibility, cardiorespiratory training, core training, speed-agility-quickness training, and resistance training. They will learn how to integrate these training concepts into a personalized workout plan.

HEALTH (10th grade)

0610

Semester - .5 credit

This is a required course for tenth grade. Different topics will be covered every six weeks. The topics will be drugs, tobacco, alcohol, CPR, infectious diseases, sexually transmitted diseases, AIDS, contraception and sexual choices. Students will explore healthy lifestyles and activities to lead an active life. Choices and consequences can affect our mental and physical wellbeing.

MATHEMATICS

ALGEBRA I

5305

Year - 1 credit

Algebra I will include a detailed discussion of the four fundamental operations with rational numbers including negative values, solving equations, inequalities and word problems. An introduction to the Cartesian Coordinate Plane provides an understanding of functions and their graphs. Students will explore exponents and square roots, as well as multiplying and factoring polynomials and working with the four basic operations on rational expressions. An understanding of irrational solutions of the quadratic equation is developed. The PA Algebra 1 Keystone Exam will be taken as an end-of-course exam.

KEYSTONE ALGEBRA (9th-10th grade)

5317

Year - 1 credit

Students will receive an individual plan designed to meet the foundational skills needed to be successful with Algebra I. Multiple points of performance data are used to develop direct instruction at the student's area(s) of need. One of the goals of this course is to support students in preparation for passing the Keystone Algebra I Exam.

ALGEBRA II Prerequisite: Algebra I (may be taken concurrently with Geometry)

5309

Year - 1 credit, weighted

A scientific calculator or a graphing calculator is a necessary tool for this class. Algebra II integrates advanced algebraic skills that will be applicable to the students who plan to continue through the higher level math curriculums. *Students who do well in math and who wish to advance to the AP Calculus course may need to simultaneously enroll in two Math courses. This course can be taken concurrently with Geometry. Students who are college bound should plan to take Algebra II. Additionally, students considering a career in the fields of: science, computers, medicine, engineering, Tool & Die, and business should enroll in the Algebra II course.

GEOMETRY Prerequisite: Algebra I

5308

Year - 1 credit, weighted

This course begins with simple set notation, and continues into structuring Euclidean Geometry from the basic unidentified terms through triangle, polygons and circles.

TRIGONOMETRY Prerequisite: Algebra II & Geometry

5314

Year - 1 credit, weighted

A scientific calculator is required, however a graphing calculator is recommended. Trigonometry includes the development of the six Trigonometric functions as related to the rectangular coordinate system as well as any right triangle. The student

is able to do the following with trigonometric functions: evaluate with angles in both degrees and radians, graph, prove identities, and solve equations. Methods of solving oblique triangles such as the Law of Sines and the Law of Cosines will be introduced. This course can be taken concurrently with Algebra II or Precalculus.

PRE-CALCULUS Prerequisite: Algebra II, Geometry and Trigonometry 5310

Year - 1 credit, weighted

This course is an intense study of advanced Algebra and trigonometry in preparation for taking Calculus. We also strongly advise a student to have a Texas Instrument graphing utility (TI-84) .

CALCULUS Prerequisite: Algebra II, Trigonometry, Pre-Calculus 5311

Year - 1 credit, weighted

Calculus includes the study of functions, derivatives, limits, integrals, and applications of derivatives and definite integrals.

ADVANCED PLACEMENT CALCULUS Prerequisite: Pre-Calculus, Algebra II and Trigonometry 5312

Year - 1 credit, AP weighted

This course will cover rates of changes, derivatives, and integration. We recommend that the student have access to a (TI-84) Texas Instrument graphing utility.

STATISTICS (11th-12th grade) Prerequisite: Algebra II and Geometry 5313

Year - 1 credit, weighted

Statistics is a collection of methods for planning experiments, obtaining data, and then organizing, summarizing, presenting, analyzing, interpreting, and drawing conclusions based on the data. This course is a basic college prep Statistics course that covers most of the information that you would find in a college Statistics course.

CONSUMER MATH (10th-12th grade) 5315

Year - 1 credit

This course is designed for students who want to learn how to manage money. Students will learn math skills that will address: budgets, banking, borrowing, and investing. Students will solve problems related to: managing a household, purchasing and maintaining a car, home improvements, computing expenses related to rent, mortgages, utility expenses, and taxes.

INTEGRATED MATH I (10th-12th grade) Prerequisite: Algebra I 5316

Year - 1 credit

The critical areas, organized into units, deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Students will use properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. The final unit in the course ties together the algebraic and geometric ideas studied. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

MUSIC AND PERFORMING ARTS

MUSICAL THEATRE ARTS 5804

Semester - .5 credit

Students are given an opportunity to explore theatre through music, theatre history and to develop their creativity by working in groups and monologue styles in various types of performances. Performance and critique writing are course requirements.

ADVANCED THEATRE ARTS (10th-12th grade)

5805

Year - 1 credit

This course is for the creative overachiever. Throughout the year, the student learns about acting, dancing, directing, voice usage, creative writing and the interpretation of many different characters.

SENIOR HIGH CHORUS 9-12 (9th-12th grade)

5801/5816

Year - 1 credit**Semester - .5 credit**

Chorus is open to all students who wish to sing in a group ensemble. Opportunities for solo and small ensemble work are encouraged. Students explore and perform many styles of music. Performance opportunities are given through many public appearances.

- Competitive opportunities to challenge top vocalists are available through PMEA and other District, Regional and State levels.
- Vocal Ensemble is integrated into this course through auditions and vocal parameter requirements.
- Grading is based on participation and ability. Membership is determined by the choral director as evidenced by an audition.
- First Semester students must participate in the winter concert. Second Semester students must participate in the spring concert.

SENIOR HIGH BAND (9th-12th grade)

5803/5817

Year - 1 credit**Semester - .5 credit**

This class is open to all Senior High students. The goal of this course is to further the musical and performance skills of all those involved.

- Competitive opportunities to challenge top musicians are available through PMEA and other District, Regional and State levels.
- Various musical ensembles may be integrated into this course through auditions and other opportunities.
- Grading is based on participation and ability.
- First semester students must participate in the winter concert. Second semester students must participate in the spring concert.

SCIENCE

GLOBAL SCIENCE (Required 9th grade)

9400

Year - 1 credit

Global Science encompasses physical science, life science, & environmental science. This course analyzes interactions between humans and their environment, energy sources and usage, resource management, and man as a part of the global ecosystem.

BIOLOGY/Bio Lab (Required 10th grade)

0400

Year - 1 credit

This course focuses on the 12 Big Ideas in Biology as well as the PA Biology Standards. Topics explored include Experimental Design, Biochemistry, Cell Structure and Transport, DNA and Protein Synthesis, Genetics, Evolution by Natural Selection, Energetics, and Ecology and the Environment. The PA Biology Keystone Exam will be taken in May as an end-of-course exam.

ADVANCED PLACEMENT BIOLOGY - Prerequisites: Chemistry I

5403

Year 1 credit, weighted

Advanced Placement Biology is equivalent to an entry-level Biology course in college addressing major biological themes and processes. Students not taking the AP exam will receive the honors weighting for the course. This course builds on what was learned in Biology. It is a study of living things from the molecular level on up. It is more advanced than biology and assumes the student already has a basic knowledge of Biochemistry, Genetics, Ecology, Taxonomy and Cytology. While all of those will be covered to some extent the primary stress of the course will be Botany and Zoology. Use of the microscope and dissections will be done in labs.

CHEMISTRY I/CHEM LAB - Prerequisite: Algebra I 5404

Year 1 credit, weighted

This is an academic course for students interested in pursuing a science-related career. Concepts covered are measurement and analysis, matter and energy, atomic structure, periodic law, chemical bonding and reactions, gas laws and acid-base theory.

CHEMISTRY II/CHEM LAB - Prerequisite: Chemistry I 5405

Year - 1 credit, weighted

Chemistry II is a continuation of the concepts introduced in Chemistry I. Content will include: Gas laws, reaction kinetics, chemical equilibrium, acid-base oxidation-reduction reactions, and introduction to organic chemistry. Sign up for this course if you are contemplating a science based career that requires a four year degree.

INTRODUCTION TO ASTRONOMY Elective: (11th-12th grade) 5411

Semester - .5 credit

Astronomy is a course that examines relationships between the Earth, Moon, and Sun, the formation and members of the Solar System, and stellar evolution processes and galaxies. Astronomical instruments and tools will be introduced and basic observation techniques will be examined. Students may be required to do nighttime observations during the course.

EARTH PROCESSES Elective: (11th-12th grade) 5421

Semester - .5 credit

Earth Processes is a course that examines the natural hazards and disasters that occur on Earth. The course will explore geologic and natural processes that affect Earth and its population. Earthquakes, volcanoes, mass wasting events, hurricanes, and severe weather events are among the topics that will be discussed. The course will also focus on studying current natural hazard events as they occur.

EARTH AND SPACE SCIENCE Elective: (11th-12th grade) 5412

Year - 1 credit

Earth Science covers the fundamental concepts of Astronomy, Geology and Meteorology. Dynamic processes such as earthquakes, volcanoes, weathering, planetary formation, stellar evolution and galaxies, weather patterns and severe storms will be examined in detail. The student will be introduced to laboratory processes and basic observation tools and techniques that are part of the various fields of study.

Recommendation: Algebra I

FORENSIC SCIENCE Elective: (11th-12th grade) 5414

Semester - .5 credit

Forensic Science is a hands-on scientific inquiry course designed to familiarize students with real crime scene analysis. Topics include: the law, evidence, preservation, documentation, fingerprints, hair, fibers, drugs, toxicology, trace evidence, blood, DNA, human remains, soil analysis, glass, and handwriting analysis. A strong focus of this course is laboratory experimentation and logical reasoning. Technology is integrated within this course for laboratory instrumentation.

PHYSICS/PHYSICS LAB 5406

Year 1-credit, weighted

Physics is an academic course examining the fundamentals of forces and vector mechanics, kinematics and dynamics, heat and energy, waves, sound, light, electricity and magnetism. Modern topics are also discussed.

Laboratory investigations, problem solving, and critical thinking comprise a major part of the course. Students planning on majoring in any science, engineering, mathematics, or medical-related field should take Physics.
Recommendation: Completion of Algebra II and Trigonometry (or taken concurrently).

ADVANCED PLACEMENT PHYSICS/AP PHYSICS LAB 5407

Year - 1 credit, weighted

AP Physics is an academic course examining the advanced understanding of the fundamentals of force and vector mechanics, kinematics, and dynamics. Modern topics are also discussed. Laboratory investigations and problem solving are a major part of the course. Students planning on majoring in any engineering or physical science field should take AP Physics.

Recommendation: Physics and Calculus or must be taking Calculus concurrently.

ANATOMY/ PHYSIOLOGY Prerequisite: Chemistry I 5408

Year - 1 credit, weighted

This course is an elective, secondary level science course. This course is designed for those students planning to pursue a science or medical related field of study in the vocational or college bound areas. This is an intense subject focusing on the major systems of the body, and uses dissection as a comparative study. Students will be expected to understand and be able to correlate information into actual practice.

Recommendation: Completion of Biology

ADVANCED BIOLOGY THEORY Prerequisite: Chemistry 1 5402

Year - 1 credit, weighted

This course may be taken as a junior with the pre-approval of the instructor and guidance counselor. This class is a lab-oriented class with heavy emphasis on laboratory techniques and procedures. The final grading period involves the development of a research project that ties in laboratory experimentation and procedures learned prior to this project.

INTRODUCTION TO METEOROLOGY Elective: (11th-12th grade) 5418

Semester - .5 credit

Meteorology is a course that examines the dynamic processes that occur within the atmosphere. Topics include: heating of the atmosphere, moisture content, air pressure and winds, air masses and fronts, weather patterns and severe weather phenomena. Measurement tools and processes will also be examined. An emphasis will be placed on local weather patterns and events.

PRINCIPLES OF TECHNOLOGY/ELECTROMAGNETISM Elective: 11th-12th grades 5416

Semester - .5 credit

Principles of Technology: Electromagnetism examines the fundamentals of electricity and magnetism as well as applications of these concepts in the everyday world. Laboratory investigations, problem solving, and application and design projects are a major part of the course. Students planning on majoring in any technical field (and not taking Physics) should take Principles of Technology.

PRINCIPLES OF TECHNOLOGY/MECHANICS Elective: 11th-12th grades 5417

Semester - .5 credit

Principles of Technology: Mechanics examines the fundamentals and everyday applications of the concepts of force, motion, work and energy. Laboratory investigations, problem solving, and application and design projects are a major part of the course. Students planning on majoring in any technical field (and not taking Physics) should take Principles of Technology.

SCIENCE OF FOOD AND DRUG Elective: (11th-12th grade) 5422

Semester - .5 credit

The Science of Food and Drug is an activity-based course that integrates science, technology, engineering and mathematics. Students will apply algebraic concepts to investigate and solve problems related to the chemistry and physiology of food and drugs using the inquiry and design model. Students will be introduced to the food and drug industries and their roles in society.

MECHANICAL ENGINEER STEM Elective: (11th-12th grade) 5409

Semester - .5 credit

Introduces the student to the scope of the mechanical engineering profession and its role in society, and develops a sense of professionalism in the student. Provides an overview of engineering focusing on design, construction, evaluation and marketing processes. Develops professional communication and teamwork skills.

BIOMEDICAL ENGINEER STEM Elective: (11th-12th grade) Prerequisite: Mechanical Engineer STEM 5410

Semester - .5 credit

Introduces the student to the scope of the biomedical engineering profession and its role in society, and develops a sense of professionalism in the student. Provides an overview of biomedical engineering through lectures, presentations by outside speakers, hands-on exercises, and scientific literature analyses. Develops professional communication and teamwork skills. This course aims to educate students on project definition, and on the design, development and technology transfer of potential biomedical products in the context of the student's major project. Students will learn best practices for designing a marketable medical device/product, including the design process from the prototype and clinical testing to market readiness.

SOCIAL STUDIES

AMERICAN CULTURES II (Required 9th grade) 9200

Year - 1 credit

American Cultures II is a course involving the study of American History from 1861 to 1932. It studies the immediate causes of the Civil War to the election of Franklin D. Roosevelt in 1932. Special emphasis is given to the Civil War, Reconstruction, the Gilded Age, the development of industry in the U.S., American expansionism, WWI and will conclude with the post war boom and the Great Depression.

AMERICAN CULTURES III (Required 10th grade) 0200

Year - 1 credit

American Cultures III is a course involving the study of American History from 1933 to the present day. The course is designed to provide an in depth study of events from the rise of Nazi Germany and Franklin Roosevelt as President, to the increasing American involvement in the world as a superpower. Students will study and analyze the events, policies, and issues that shaped the modern world.

WORLD HISTORY 1120

Year - 1 credit

World History examines and analyzes countries of the world in relation to the United States. The course focus includes geography, history, government, and economics of individual countries and regions. Special emphasis will be given to Europe, Asia, the Middle East, Russia and the Commonwealth of Independent States, and Western Africa.

AMERICAN GOVERNMENT 1221

Semester - .5 credit (scheduled with Economics)

This course is based on the assumption that it is essential for all Americans to know and understand the nature of the American system of government/economics. This course treats the origins, development, organization, powers and actual workings of American government and economics as related items.

ECONOMICS 1220

Semester - .5 credit (scheduled with American Government)

Economics is a senior level course that offers students the opportunity to learn about the economic world. Topics include: Why Economics is Important, Supply and Demand, Markets, Microeconomics, Macroeconomics, and Consumer Economics.

ADVANCED PLACEMENT(AP) US HISTORY

5200

Year - 1 credit, AP weighted

AP US History is a demanding course that is meant to be the equivalent of a freshman college course. It is a full year course in American history from the Age of Exploration and Discovery to the 21st century. Exceptional reading and writing skills, along with a willingness to devote time to homework and study, are necessary to succeed. AP US History may replace the 11th grade course of study. One purpose of this course is to enhance critical thinking skills by emphasizing analysis and evaluation as well as knowledge of factual content. Students must demonstrate these skills through the written work and class participation. The course is writing-intensive. There will be assignments over regularly scheduled holiday breaks. Those who take the class should be prepared for the AP examination in May.

ADVANCED PLACEMENT (AP) WORLD HISTORY

5201

Year - 1 credit, AP weighted

This is a demanding course meant to be the equivalent of a freshman college course. This course addresses world history from the earliest agricultural societies to the highly interdependent 21st century. Exceptional reading and writing skills and a willingness to devote time to homework and study, are necessary to succeed. It will offer both narrative and historiographical perspectives to the understanding of history. A global narrative will be presented in chronological sequence divided into four units of study: The Rise of Sedentary Agricultural Communities to the Eve of Global Societies (8000 BC to 1300 CE), The Dawn of Global Societies (1300–1750), Industrialization and Global Integration (1750-1900), Accelerating Global Change and Realignment (1900-present). The pace of this course is rigorous. Students should expect to read and be responsible for a chapter of text reading in addition to several source readings each week. Students should also expect a significant amount of writing in this class. Written responses to Document Based Question and short answer and essay responses will be a regular part of this course. Other class activities will include but not be limited to lecture, small group and class discussion, debates and student recitation. This course may replace the student's junior year World History requirement for the Social Studies curriculum.

PSYCHOLOGY (11th-12th grade)

5202

Semester - .5 credit

This course can be used as either a Humanity credit or an Elective credit.

An emphasis is placed on personality development, learning theory, adolescent behavior, study of abnormal behavior, intelligence, and consciousness. Communication skills are stressed throughout the course in small and large discussion groups. Classroom activities are centered on goal-setting, active listening techniques and adolescent development concerns. A self-evaluation paper is required.

Recommendation: Course is restricted to Junior and Senior students only, unless permission is granted from the instructor and guidance department.

SOCIOLOGY (11th-12th grade)

5205

Semester- .5 credit

In Sociology, students will be introduced to the scientific study of social institutions and their effect on individual and group behavior. Students will explore the various approaches to understanding such social phenomena as stratification and deviance.

ADVANCED PSYCHOLOGY (12th grade) Prerequisite: Psychology/Sociology

5204

Year - 1 credit

This course will utilize research and analysis approach to the field of psychology. An in-depth look at the brain and psychological issues/theories and scientific principles. Case studies will be utilized.

HISTORY IN THE MEDIA (10th-12th grade)

5209

Semester - .5 credit

This course is designed to study the portrayal of history through film. It allows students the opportunity to analyze the reality of history vs. the fiction of film. Students will be able to distinguish the reality of historical events and issues.

CRIMINAL JUSTICE (10 th or 12 th grade)	5206
Semester - .5 credit	
This course is planned as a general introduction to the areas of law covering the Criminal, Civil, Family, Consumer, and Housing laws of Pennsylvania. Students must be able to grasp and understand legal terminology.	
MILITARY HISTORY (10 th -12 th grade)	5210
Semester - .5 credit	
This course traces the development of technology, related to warfare, from the caveman to our present arsenals. Students will explore and research weapons and weapons systems. The course explores the military conflicts in which the United States has been involved. Conflicts from the American Revolution to the Persian Gulf War will be studied. The major emphasis will be on cause-effect relationships. There will also be military tactics and innovations from each conflict presented. Conflicts studied will include: the French and Indian War, the American Revolution, the War of 1812, the Mexican War, the Civil War, the Spanish American War, World Wars I and II, the Korean Conflict, Vietnam, and the Persian Gulf War. A major emphasis will be placed on learning the focus and events in the world which led to each war and possible solutions that might lead to maintaining peace.	
CONTEMPORARY ISSUES (10 th -12 th grade)	5212
Semester- .5 credit	
The purpose of this course is to develop in students an awareness of an involvement in the current events today focusing on social, political, and economic issues. Contemporary Issues includes the utilization of resource material such as, but not limited to, current books, magazines, films, documentaries, and TV.	
CIVIL WAR: (11th-12th grade)	5207
Semester - .5 credit	
This course is designed to develop an interest in the American Civil War, its causes, military campaigns, and battles, as well as the long term results. Students will find out American Civil Wars were anything but civil.	
SPORTS IN AMERICAN HISTORY: (10th-12th grade)	5211
Semester - .5 Credit	
This course is a study of sports in colonial America, the 19th century, health reforms in sports, rise of modern sports, sports development as a cultural phenomenon and as a multi-billion dollar industry.	
3rd MILLENNIUM: (11th-12th grade)	5215
Semester - .5 Credit	
This course offers a survey of war, technology, environmental issues, population pressures, political changes, human changes, and globalization in the 21st century.	
TURBULENT 60s: (11th-12th grade)	5214
Semester - .5 Credit	
An exploration of the events and individuals who shaped United States history culturally, economically, politically, and socially in the period from 1960 to 1969.	

TECHNOLOGY EDUCATION

FOUNDATIONS OF TECHNOLOGY (9 th -12 th grade)	5731
Year - 1 credit	
Technology Education provides students the ability to comprehend and apply scientific, mathematical and engineering principles to real world-real time projects. This course is an activity-based, introductory class that focuses on the evolution of technology, manufacturing and construction, communication, transportation and bio-related concepts.	

COMPUTER AIDED DRAFTING (CAD I)	5723
Year - 1 credit	
CAD I is an activity-based class that develops an understanding of spatial relations through the use of lines and geometric shapes. Spatial relations skills are needed by engineers, architects, tool and die makers, machinists, welders, fabricators, drafters and professionals in various trades. Students will utilize industry standard software.	
CAD II Prerequisite: CAD I	5724
Year - 1 credit	
CAD II is a continuation of concepts learned in CAD I through a more in-depth study of advance drafting techniques and concepts. Students will utilize industry standard software.	
CAD III (11th and 12 th grade) Prerequisite: CAD II	5725
Year - 1 credit	
CAD III is based on concepts and techniques developed in CAD I and II. Student will be exposed to more abstract problem solving activities. Students will utilize industry standard software.	
CAD IV (12 th grade) Prerequisite: CAD III	5726
Year - 1 credit	
CAD IV is based on concepts and techniques developed in CAD I and II. Student will be exposed to more abstract problem solving activities. Students will utilize industry standard software.	
MANUFACTURING I Prerequisite: Foundations of Technology	5720
Year - 1 credit	
Manufacturing I is an activity-based class exploring entry level concepts for manufacturing and construction processes which would include selection and application of materials, tools and equipment, safety considerations, design processes, fasteners and finishing techniques used in manufacturing and construction.	
MANUFACTURING II Prerequisite: Manufacturing 1	5721
Year - 1 credit	
Manufacturing II is an activity-based class that builds on concepts learned in Manufacturing I. Students learn more complex concepts for material selection, safety considerations and more difficult design processes used for manufacturing and construction.	
MANUFACTURING III Prerequisite: Manufacturing II	5722
Year - 1 credit	
Manufacturing III is an activity-based class where students work independently developing solutions to common manufacturing/construction problems. Problems will require research into design and production problems.	
MULTIMEDIA TECHNOLOGY I (9th- 12th grade)	5727
Year - 1 credit	
Multimedia Technology provides a broad overview of communication. Multimedia is a hands-on type of class where the students will have the opportunity to learn about Digital Photography, Video production, 3D printing, Vinyl cutters, T-shirt design. Students will also have experiences using digital imaging software such as Photoshop to enhance photographs and digital images. Multimedia is a full year elective course where students produce, write, perform, and manage a various audio and video production projects. The students learn through a hands-on program designed to teach students the fundamentals of broadcasting and challenge the individual student to find their creative potential. Software: iMovie, CC Photo Shop, Audacity, CC After Effects.	
MULTIMEDIA TECHNOLOGY II (10th- 12th) Prerequisite, Multimedia I	5728
Year - 1 credit	
Multimedia Technology II is a continuation of Multimedia I. In Multimedia II students will learn about desktop publishing.	

Students will continue using digital imaging software to complete advanced projects in digital design, Students will learn more about photography, video production and communicating through print and digital media.

ENTERPRISE (11th - 12th grade) Prerequisite, CAD I or Foundations of Technology 5742

Year - 1 credit

Enterprise is an activity based class in which students form an enterprise (company). Students participate in the organization and management of the enterprise; select and engineer a product, raise funds, hire employees, engineer production, produce, advertise and sell the product, and finally distribute products. Students will play the roles of various personnel included.

ROBOTICS I, II, III, IV (STEM) (9th-12th grade) 5419, 5420, 5423, 5424

Year - 1 credit

Robotics is an activity based introductory class that focuses on the building of a fighting robot. Students will design and build a fighting robot that will be placed in a competition near the end of the year. This course will introduce students to Drafting and Design, Manufacturing, and Engineering.

WORLD LANGUAGES

FRENCH I (8th-12th grade) 5501

Year - 1 credit

Skills of speaking, writing, reading and listening are emphasized. This course is an introduction to basic grammar, and development of more extensive vocabulary, culture and grammar. Culture of the entire francophone world, including Canada, Europe, North and West Africa, and the West Indies are explored.

FRENCH II (9th-12th grade) 5502

Year - 1 credit

This course is a continued emphasis on development of communication skills. Intermediate grammar is introduced, with increased focus on original expression in target language; and the development of reading skills through reading in the target language. Deeper understanding of the francophone world is encouraged through the exploration of Canada, Europe, North and West Africa, and the West Indies are explored.

FRENCH III (10th -12th grade) 5503

Year - 1 credit, weighted

This course focuses on advanced grammar. Emphasis is placed on individual original expression, both written and oral. The diverse world of "la francophone" is studied in greater depth.

FRENCH IV (11-12th grade) 5504

Year - 1 credit, weighted

This course is characterized by the continued study of advanced grammar and expression. It includes the refinement of communication skills through situational role-playing and advanced reading selections. Study of culture, history, and literature of France and the wider francophone world is expanded.

SPANISH I (8th-12th grade) 5511

Year - 1 credit

This course concentrates on surroundings and daily activities including: food, family, school and basic grammar of the Hispanic culture.

SPANISH II (9th-12th grade) 5512

Year - 1 credit

This course concentrates on social activities and traveling. Grammar and history will be covered. Grammar covers various tenses and research will include the discussion of Hispanic history. Students who actively participate in Spanish II and successfully complete the requirements would be able to be exchange students and readily adapt to a Spanish environment.

SPANISH III (10th-12th grade) 5513

Year - 1 credit, weighted

This course is for the ambitious student who enjoyed Spanish I & II. Spanish III strives to teach freedom in thinking and speaking Spanish while expanding vocabulary and reinforcing grammar skills. Research covers contemporary issues as they pertain to the Hispanic world.

SPANISH IV (11-12th grade) 5514

Year - 1 credit, weighted

This course is for students willing to work independently and in small groups. Additional verb tenses are incorporated into journal writing, story reading and taped conversations. Research topics cover the fine arts as created by Hispanics.

ADDITIONAL ELECTIVE CREDIT OPPORTUNITIES

INTERNSHIP A (11th-12th grade) 1300

Semester - 1 credit per 10 hour block (limit 3 credits)

Definition - A regular and pre-arranged position in a for-profit business or organization where a student, 18 years of age or older, works with compensation in order to gain valuable experience and skills. Students who leave early or arrive late to school must provide his/her own transportation and complete the "Additional Elective Credit Opportunity" form. There is a ten (10) hour minimum weekly requirement for 18 weeks per semester. Applications can be found in the office.

INTERNSHIP B (11th-12th grade) 1301

Semester - 1 credit per 10 hour block (limit 3 credits)

Definition - A regular and pre-arranged position in a for-profit business or organization where a student works without compensation in order to gain valuable experience and skills. Students who leave early or arrive late to school must provide his/her own transportation and complete the "Additional Elective Credit Opportunity" form. There is a ten (10) hour minimum weekly requirement for 18 weeks per semester. Applications can be found in the office.

VOLUNTEERISM (11th-12th grade) 1302

Semester - 1 credit per 10 hour block (limit 3 credits)

Definition - An individual within a non-profit organization who works without compensation in order to gain valuable experience and skills. Students who leave early or arrive late to school must provide his/her own transportation and complete the "Additional Elective Credit Opportunity" form. There is a ten (10) hour minimum weekly requirement for 18 weeks per semester. Applications can be found in the office.

NON-CREDIT ELECTIVE OPPORTUNITIES

SENIOR RELEASE (12th grade) 1303

Semester - 0 credit

Definition - A Senior who is employed during the school year and on track to graduate. There is a ten (10) hour minimum weekly requirement for 18 weeks per semester. Students may request up to three (3) periods per day. Building principals have sole discretion with senior release.

Crawford County Career & Technical Center Options

2 Year (grades 11 & 12)

Carpentry
Early Childhood Education
Commercial Art & Graphics
Electrical Occupations
Health Occupations
Landscape & Turfgrass Management

3 Year (Grades 10, 11, & 12)

Auto Collision Technology
Auto Technology
Computer & Information Sciences
Cosmetology
Culinary Arts & Restaurant Management
Diesel Technology
Drafting & Design Technology
Electronics Technology
Precision Machining
Welding

Grade 12 Only

Diversified Occupations
Capstone Co-Op
Cooperative Education

*****(Note: Application for any CCCTC program is done primarily during a student's 9th grade)*****

AUTO COLLISION TECHNOLOGY (grades 10, 11, & 12)

VT09/10

The Auto Collision course includes instruction in the removal of dents, repair of rusted or damaged panels, replacement and installation of parts and accessories, preparation and refinishing of spot repairs, and complete auto painting and refinishing.

Additional learning experiences are provided in using small hand tools, specialized equipment including the most modern tools used in the collision trade, and estimating the cost of repairs.

AUTO TECHNOLOGY (grades 10, 11, & 12)

VT11/13

This course provides practical instruction in the diagnosis, repair and adjustments of problems related to gasoline-powered motor vehicles. The mechanic must determine what tools and parts are necessary to repair the car, estimate the cost of repairs, and discuss the entire situation with the customer. Areas of study include: transmissions, hydraulic brake systems, electrical and cooling systems, motor tune-up and front end alignments.

CARPENTRY (grades 11 & 12)

VT14/15

The curriculum will deal with the erection and installation of buildings and other structures using assorted materials such as metal, wood, glass, concrete, or composition substances. Instruction is provided in the basic skills of carpentry, masonry, and a variety of activities associated with building construction. These include: cost estimating, cutting, fitting, fastening, and finishing various materials. Students will use a variety of hand power tools, learn blueprint reading and following technical properties of materials.

COMMERCIAL ART AND GRAPHICS (grades 11 & 12)

VT16/17

Commercial Art seeks to provide students with the foundational skills that are required for dozens of occupations within the communication arts. Having a solid foundation in visual acuity as evidenced through drawing skills is what is most highly sought after by design schools and employers. The program focuses on attaining mastery in drawing, value study, composition, color theory, and creative thinking as well as state of the art computer hardware and software.

COSMETOLOGY (grades 10, 11, & 12)

VT20/21

The Cosmetology course provides students the training required to become state licensed Cosmetologists. In the exciting world of style and fashion, the Cosmetology classroom is on the "cutting edge". Classroom instruction and clinical experience provide the training needed to perform skills used in today's ever-changing industry. Upon completion of this 1250 required-hour course, the student is prepared to take the state examination for a Cosmetologist license in Pennsylvania. Employment opportunities are limitless as cosmetologists; this license enables cosmetologists to work in any salon, be make-up artists, wedding and event stylists, product educators, sales representatives, color specialists, artistic directors, a business owner or many other opportunities.

CULINARY ARTS & RESTAURANT MANAGEMENT (grades 10,11, & 12)

VT07/08

The Culinary Arts & Restaurant Management course provides the theory and practice of food preparation and service needed to be successful in entry level jobs. Students learn how to operate and care for kitchen equipment, prepare and serve food, plan menus, and operate a cash register. Students practice their serving techniques and learn management skills in the Career Tech restaurant. Students will receive certification from the state after successfully completing a course in safe handling of food and sanitation. Math is taught in forms related to the restaurant industry.

DIESEL TECHNOLOGY (grades 10,11, & 12)

VT22/23

Diesel mechanics repair and maintain diesel engines that power transportation equipment such as heavy trucks, buses, and locomotives, construction equipment such as bulldozers, cranes, and road graders, diesel-powered automobiles. Students are instructed in the operation, testing and maintenance of diesel-powered equipment. The course includes such areas as: fuel systems, electrical and cooling systems, air intake, and exhaust systems, welding and air conditioning.

EARLY CHILDHOOD EDUCATION (grades 11 & 12)

VT05/06

The Early Childhood Education course is an instructional program endorsed by the Pennsylvania Department of Education to prepare individuals for a variety of occupations in child care and guidance, often under the supervision of professional personnel in child or day care centers. The course includes instruction in the child's growth and development; nutrition; program planning and management; safety and 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 centers. By successfully completing the two-year program, the student has the opportunity to earn the CDA Ready Certificate (Child Development Associate). Upon graduation and if the student is 18 years of age, he/she will be eligible to take the written CDA test, participate in a CDA assessment observation, and complete an oral interview conducted by a CDA representative. When all the requirements are fulfilled, the student will earn a CDA credential.

ELECTRICAL OCCUPATIONS (grades 11 & 12)

VT24/25

The Electrical Occupations course includes training in layout, assembly, installation, and testing of wiring and devices used in heating, lighting, power, motor control and other electrical systems at residences, factories, commercial, and other buildings. Classroom work includes electrical theory, diagram and blueprint reading, estimating for electrical repair and building wiring, and electrical and occupational safety, health act code requirements. Students will work in the shop to perform house wiring, motor, and motor control projects.

HEALTH OCCUPATIONS (grades 11 & 12)

VT03/04

The Health Occupations course introduces students to varied aspects of the Healthcare profession. The first year students are introduced to basic anatomy, physiology, and medical terminology. Students spend time researching medical careers as well.

The second year of the course deals with health care information related to direct care of the sick, disabled, or infirm. The training is applicable toward certification as a Nurse's Aide. Also included is instruction in household management and preparation of special diets to assist in the care of handicapped, elderly, and infirm in their private homes. These students may be provided a clinical experience as part of their training.

LANDSCAPE AND TURFGRASS MANAGEMENT (grades 11 & 12)

VT01/02

This two-year course provides instruction in the five areas of Horticulture studies. First year students receive entry-level instruction in the following areas: Landscape Maintenance and Design, Greenhouse and Nursery Management, Turf grass, Horticultural Mechanics and Fertilizer and Pesticide Certification. Second Year students are provided with the opportunities to do advanced studies in these areas.

WELDING (grades 10,11 & 12)

VT36/37

Welding is the process of joining pieces of metal by applying intense heat to melt or fuse the metal with the use of an electric arc or gas flame. It is the most common method of permanently connecting various metal parts that go into the construction of automobiles, spacecraft, ships, household appliances, and steel reinforcing rods in bridges, buildings, and roads. Students in the welding technology course will learn gas, arc, TIG, MIG, fluxcore, and pipe welding in accordance with the American Welding Society and the American standard of testing material specification, passing all-position guide bend tests. This will qualify the student as an all-position welder. The welding student will also learn blueprint reading, welder's math for fabrication, fabrication, and arc-air cutting process. Safety is stressed in all areas of welding.

DIVERSIFIED OCCUPATIONS (CO-OP) (grade 12)

Diversified Occupations is a planned vocational program which is offered here through the career center. The program prepares a diverse group of students for more than one vocational education area of instruction for gainful employment. The program is a direct relationship/partnership between a local business/industry and the CCCTC.

Employers sign a training agreement with Crawford County CTC to supervise and train the student. Grades are based on employer evaluations of the student's work performance and weekly scheduled co-op classes at the Career Tech School. The class covers business topics including career planning, job seeking skills, job survival skills, management, taxes, social security, insurance, banking, starting a business, and safety. Students receive a certificate from Crawford County CTC.

CAPSTONE CO-OP (grade 12)

Capstone Co-Op is open to current Career Tech seniors with a job related to the occupational field in which the student is currently studying at Crawford County CTC. The student must have completed the basic skill competency training in their shop area and continue training in that field on the job. The student must be recommended by their instructor and have acceptable conduct and classroom grades. Students attend their high school for half of the day to complete academic requirements for graduation and spend the other half of the day on the job at school-approved work sites.

Employers sign a training agreement with Crawford County CTC to supervise and train the student. Grades are based on employer evaluations of the student's work performance and weekly scheduled co-op classes at the Career Tech School. The class covers business topics including career planning, job seeking skills, job survival skills, management, taxes, social security, insurance, banking, starting a business, and safety. Students receive a certificate from Crawford County CTC both in their shop area and Capstone Co-Op.

CAREER PROGRAMS THAT REQUIRE ACADEMIC MATHEMATICS

The following programs have a math requirement. Students must have completed, or in the process of taking Algebra I in order to participate in these programs. Students in these programs should be in Academic or above Academic Math each year of high school.

COMPUTER AND INFORMATION SCIENCE (grades 10, 11, & 12)

VT18/19

(Computer Technology)

This program concentrates on studies required to achieve credentialing certifications. The student becomes skilled at computer maintenance and repair, and network fundamentals. The CompTIA, IT Fundamentals and A+ certifications, are the industry standard for computer support technicians. These certifications prove competence in areas such as installation, preventative maintenance, networking, security and troubleshooting. Information technology, even in a tough economy, is a rapidly growing and necessary field. Students who achieve their CompTIA certifications have increased job security, additional career opportunities and increased credibility in the workplace.

DRAFTING AND DESIGN TECHNOLOGY/CADD (grades 10, 11, & 12)

VT33/34

The Drafting and Design Technology/CADD class is devoted to training students for college engineering programs and the workforce. This course will provide a broad and thorough knowledge of the principle methods by which draftspersons, engineers, technicians and designers in the field express ideas to the craftspersons who fabricate the item used in everyday life. Work in this course will give the student an opportunity to develop the necessary technical skills in the use of 2D CADD software, 3D solid modeling, and 3D printing used to produce electronic files and rapid prototypes. Emphasis is placed upon acquiring the necessary technical knowledge to be able to orally, graphically, mathematically, and scientifically translate the idea of the engineer, technician, and tradesperson into a practical graphic language. The course stresses the relationship between theory and practice through the application of principles that provide entry level skills and "hands-on" experiences on computer aided drafting systems. Areas of specialization include mechanical, architectural, and civil drafting as well as technical illustration.

ELECTRONIC TECHNOLOGY (grades 10, 11, & 12)

VT27/28

The Electronics Technology Course is designed to give students a working knowledge of Basic Electricity, Analog, and Digital Electronics along with some basics in Communications. The knowledge acquired will allow a student to obtain some entry level positions in the field of Electronics or related degree program after high school. Today, graduates of this program may be found working in such specialty fields as Broadcasting, Aviation Electronics, Computers, Telecommunications, Medical Equipment Design and Maintenance, Industrial Process Control, and more. Starting salaries of qualified Electronics Technology graduates are often above that of many students graduating from other degree programs.

PRECISION MACHINING (grades 10, 11, & 12)

VT31/32

The precision machining curriculum is designed to provide instruction in setting up and operating industrial type machinery. Students enrolled in precision machining are required to take an academic math course each year they are in this shop. Using basic and advanced machine tools and precision measuring instruments, students work with the metals and alloys commonly used in manufacturing and hold to tolerances acceptable in industry. The students practice their skills by making tools they will use in industry, which they will keep. In this course the student will develop a broad knowledge of machine operation, standard shop practices, blueprint reading, metal processes, heat treating and related mathematics. Using basic and advanced CNC machine tools and precision measuring instruments, the student will work with metals and alloys commonly used in manufacturing and will hold tolerances acceptable in industry. One hour of related theory will be provided for every six hours in the shop.

CRAWFORD COUNTY CAREER & TECHNICAL CENTER ENROLLMENT PROCESS

SEPTEMBER - 9TH GRADE ORIENTATIONS

Postcards are sent out "To the Parents of..." all 9th-grade students prior to school starting. These explain what is available to them through the Career & Technical Center and give a general outline of the enrollment process. Notices are sent out just as school is starting to all 10th-, 11th- and 12th-grade students reminding them that Crawford County Career & Technical Center (CCCTC) courses are an option. Mailing label information for these notifications is obtained from the sending districts during the summer. A CCCTC counselor or representative visits each sending school to give a one-period presentation to 9th-grade students and distribute Program Guides with Application for Admission forms.

OCTOBER - 9TH GRADE TOURS/APPLICATIONS

9th-grade students from each sending school visit the CCCTC and tour through each program. Students fill out Interest forms before leaving the Career & Technical Center with up to three shops they would like to look at more closely. Postcards are mailed to the students from the instructor of their shop-of-first-choice reminding the student to fill out an Application for Admission form and return it to their home school counselor.

NOVEMBER - INTERVIEWS

The sending school counselors set up a schedule with the CCCTC counselor for interviewing each applicant. A copy of transcripts for 7th- and 8th-grades as well as a copy of the 9th-grade report card for each applicant will be put with the completed Application. This will be given to the CCCTC counselor (or special populations coordinator if the applicant has an I.E.P.) on the day of interviews.

JANUARY/FEBRUARY - WORK SESSIONS

New applicants return to CCCTC to do a work session in 1, 2 or 3 shops to determine if they want to attend CCCTC. Each work session is half a day in each of their choices. The student completes a Final Intent after Work Sessions form as to whether or not they still wish to enroll in career-technical courses, and order of preference.

FEBRUARY - ACCEPTANCE PROCESS

CCCTC instructor recommendations and student choices are evaluated, and students are accepted into one of the Career-Tech shops. Accept notices will be sent to sending school counselors to distribute. Each student will have the opportunity to sign their accept notice to say whether or not he/she would like to attend CCCTC. Sending school counselors return the signed accept notices to CCCTC.

MARCH/APRIL - HOME SCHOOL/CCCTC SCHEDULING

Sending school counselors help students set up a half-day CCCTC, half-day sending school schedule for the appropriate year.

FOR MORE INFORMATION, CONTACT STUDENT SERVICES AT THE CAREER & TECHNICAL CENTER.

These programs are for students who definitely plan to enter the industrial, technical fields or service fields. Selection of students is done in 9th grade and is based upon demonstrated ability shown in previous classes and interest. There are two areas available: Vocational or Technical. Vocational training is offered in health occupations, cosmetology, carpentry, child care, auto, diesel, horticultural, and electrical occupations. Technical training courses require that you must have Algebra I to enter the program. All 9th grade PENNCREST students will tour the CCCTC programs of study. Those students interested in scheduling for those programs will apply during their 9th grade year.