

PENNCREST School District

Course Catalogue

Grades 9-12

2018-2019 School Year

Student Scheduling Guide



**** Cambridge Springs High School ** Maplewood High School ** Saegertown High School ****

From the PENNCREST School Counselors

Dear Student, Parent and Guardian:

The following information is supplied to assist with creating an informed career path schedule for the next school year and beyond. Consideration needs to be given to choosing courses that satisfy graduation requirements, career aspirations, prerequisites and appropriate curriculum sequencing.

Extensive effort is made by your high school administrators and counselors to ensure you have chosen and receive the best possible course schedule and pathway. 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 9-12, this course catalogue seeks to address all individual situations. If you have any questions about your scheduling choices, please make an appointment with your counselor.

Making good choices for your academic plan will make a positive impact on your future. Please visit the below link for the Sixteen Career Cluster Paths:

[16 Career Cluster Paths](#)

Career planning is an ongoing process that can help you manage your learning path and reach your goals.

STUDENT INFORMATION

REQUIREMENTS FOR GRADUATION

Graduation is based on the successful completion of the required number of credits, and PA state testing (Keystone Tests).

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 2018-2019 and Beyond
Arts and Humanities	2 credits
Computers	1 credit
English	4 credits
Health	.5 Credit
Mathematics	3 or 4 Credits
Physical Education	2 Credits
Science	3 or 4 Credits
Social Studies	3 credits
Electives	9 credits *CCCTC - 6 credits
Total Credits required for graduation *Except CCCTC Students	28.5 Credits
CCCTC Students	25.5 Credits

CCCTC is the Crawford County Career and Technical Center

PENNCREST GRADING SCALE

A	92 -100
B	83 - 91
C	74 - 82
D	65 - 73
F	0 - 64

High Honor Roll and Honor Roll

To be eligible for the high honor roll, a student must have all A's.

To be eligible for the honor roll, a student must have all A's or B's.

Each school's honor roll shall be published following the distribution of report cards.

National Honor Society

Students must have a 92% Grade Point Average (G.P.A.) or higher to be eligible. The candidates are selected on the basis of scholarship, service, leadership and character. They must meet a deadline for submitting an activity sheet and an essay which are reviewed by the council advisory board for approval.

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. If you would like to substitute an AP course for a required course in grades 10-12 to find out if this allowable.

9th Grade	10th Grade	11th Grade	12th Grade
American Cultures II	American Cultures III	English	English
English 9	Biology	Math	Government/Economics
Family Consumer Science	English	Physical Education	Math or Science
Global Science	Health	Science	Physical Education
Math	Math	World History	
Physical Education	Physical Education		
Theater Arts			

WEIGHTED COURSES

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 1.15)

2019 - 2022 Graduating class offerings

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

Summer work may be required as part of the AP curriculum. Students to be granted AP weighting for the course must complete the AP examination. If students do not complete the AP examination, they will receive honors weighted course. Students seeking a fee waiver for the exam should contact their school counselor.

Dual Enrollment Courses - University and PENNCREST School District.

CURRICULUM OPTIONS

Careful planning and scheduling is the best prerequisite of any successful undertaking. Selection of a course of study should be based on proven ability, interests, and ambition for the future. Carefully consider your plans, establish your goals and work towards them. Senior High (Grades 9-12) students should schedule with a 4-year plan in mind that will prepare them for their future career goals. The following description of the curriculum offerings and requirements should help in making choices. Your teachers and School Counselor will be glad to assist in planning your schedule.

BUSINESS

These courses are designed to give the student the salable skills necessary to become employed as wage earners within the business community. Skills are acquired in accounting and computer related business subjects. If a student desires, he/she can continue his/her education in a College/University of his/her choice majoring in business or Business School of his/her choice.

HONORS

These courses are for students who want to challenge their learning and set a path for secondary educational opportunities, beyond graduation. Selection should enhance academic strengths and abilities. If there is a particular interest in engineering or the technical fields, as much science and mathematics as is practical should be scheduled. Post secondary schools look for well rounded students who have a story to tell with their academic journey and have challenged their growth opportunities within the academic setting.

COURSE SELECTION and **COURSE ADJUSTMENTS/SCHEDULE CHANGES******

Each year, all students in grades 9 through 11 are given a course schedule request form for the following school year. Students are required to select courses for the next year after discussions with parents, teachers, and the school counselor. Course selections should adhere to PENNCREST credit and grade level requirements. The student should take full advantage of the variety of available courses so that he/she is well prepared after high school. Students considering post secondary education should be aware of those institutions' requirements.

Occasionally, despite careful planning and consideration, students change their minds. Course request changes may be made anytime before the end of the school year with a parent note and signature. If a student realizes there is an error in his or her schedule prior to the beginning of the new school year, he/she must see their school counselor within the first five days of school for the correction.

As of the first day of school, the student's schedule stands as requested. If changes are not made prior to this time, they will be addressed on an individual basis. Additionally, if a student attempts a more challenging course and finds within the first 9 weeks that they are unsuccessful, they may request to drop the course. This must be done with approval from the teacher, parent, and school counselor. Careful consideration during the course selection process is advised. Please feel free to contact the School Counselor Office with any of your questions or concerns.

PENNCREST School Counselors:

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

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FOR STUDENTS CONSIDERING ATTENDING COLLEGE:

Most colleges require College Entrance Exams. These are the **ACTs** or the **SATs**.

- **PSAT** should be taken by students in October of their Junior year. It is the best preparation for the **SAT**.
- **SAT** should be taken by students in the Spring of their Junior year. Students need to create a collegeboard.org so they can sign up and take the exam.
- **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 a ACT.org so they can sign up and take the exam.

It is very strongly suggested that the summer between Junior and Senior year, parents and Seniors visit the schools they may wish to attend after graduation. This should be scheduled through the College/University/Trade School admissions office. Your application fee may be waived by the institution based on your visit.

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/>

TYPES OF SCHOOLS

Available for Post-High School Training

COLLEGE: An institution that offers educational instruction beyond high school in a two or four year program.

COMMUNITY COLLEGE/JUNIOR COLLEGE: Two-year public or private institutions offering vocational training and academic curricula.

STATE COLLEGE/UNIVERSITY: A four-year institution supported by state tax dollars providing the ability to charge lower tuition rates.

LIBERAL ARTS COLLEGE: Four-year institution which emphasizes a program of broad undergraduate education. Pre-professional or professional training may be available but is not stressed.

PRIVATE COLLEGE/UNIVERSITY: A four-year institution not supported by public money with a higher tuition rate. Often endowments allow higher financial aid rates than state colleges thus equalizing costs.

UNIVERSITY: An academic organization which grants undergraduate and graduate degrees in a variety of fields and supports at least two degree granting professional schools that are not exclusively technological (such as medicine, journalism, or agriculture). It is composed of a number of “schools” or “colleges”, each of which encompasses a general field of study.

ENGINEERING OR TECHNICAL COLLEGE: Independent professional schools which provide four year training programs in the fields of engineering and the physical sciences, often known as Institutes of Technology or Polytechnic Institutes.

TECHNICAL SCHOOL: A one or two year institution which offers occupational programs intended to prepare the student for immediate employment in technical fields.

NURSING SCHOOL: There are two kinds of nursing schools. Schools affiliated with hospitals or two year college programs, students receive R.N. degrees. Schools affiliated with four year college programs, students receive both an R.N. and B.S. degree which allows possibilities of entering nursing administration immediately.

MILITARY SCHOOL: Federal military academies provide officers for the armed services. These institutions require appointment by members of congress. Private and state supported military institutes operate on a college application basis. They offer degree programs in engineering and technology with concentrations in military science.

BUSINESS SCHOOL: Business schools fall into two categories. At some colleges, it is possible to specialize in business administration or in a two-year business course in conjunction with liberal arts courses. Other institutions offer six month to two-year business/secretarial courses designed to prepare students for immediate employment.

COURSE DESCRIPTIONS

ART

ART I (9th-12th grade) 5000

5 days per week for two semesters - 1 credit

Art I is an elective art course that emphasizes drawing using various art media. Pencil, white charcoal, colored pencil, and pen & ink are several examples, as well as silk screening and T-shirts. Students are concentrating on 2-D artwork in this course.

ART II (10th - 12th grade) Prerequisite: Art I 5001

5 days per week for two semesters - 1 credit

Elective art course that emphasizes 3-D art. Jewelry and clay are two areas that the student will be exposed to. Also, acrylic painting will be introduced in this course.

ART III (11th - 12th grade) Prerequisite: Art I, II 5002

5 days per week for two semesters - 1 credit

Students will do projects in 2-D and 3-D. Teacher will assign projects and also students will have a choice of projects they would like to do during the semester. Recommendation: achievement of 83% or above average in Art I and Art II.

ART IV (12th grade) Prerequisite: Art I, II, III 5003

5 days per week for two semesters - 1 credit.

Independent study class. Students may choose to work in one area for the entire semester or choose various art media to work with for their projects. Contracts are required by the students and approved by the teacher.

ART INDEPENDENT STUDY (11th-12th grade) 5007

5 days per week for two semesters - 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.

ART & TECHNOLOGY (10th-12th grade) 5008

5 days per week for two semesters – 1 credit

This course utilizes the latest in computer technology used in the graphic design field today. Students will receive a foundational knowledge of Photoshop, Illustrator, and Macromedia products to complete specific projects.

BUSINESS & TECHNOLOGY

ACCOUNTING I (10th-12th grade) 5912

5 days per week for two semesters - 1 credit

Areas of study include; complete accounting cycle for (1) service business organized as a sole proprietorship and (2) merchandising organized as a partnership; payroll procedures and banking activities.

ACCOUNTING II (11th-12th grade) Prerequisite: Accounting I 5913

5 days per week for two semesters - 1 credit

Topics introduced in first year accounting 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
5 days per week for two semesters - 1 credit	
Topics introduced in second year accounting are expanded to include departmentalized accounting procedures, accounting control systems, general accounting adjustments, corporate accounting, and payroll procedures.	
INTRODUCTION TO BUSINESS	5920
5 days per week for two semesters - 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
5 days per week for two semesters – .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
5 days per week for one 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. Aligned to the PA core Financial literacy standards.	
PERSONAL FINANCE II	5918
5 days per week for one 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. Aligned to the PA core Financial literacy standards.	
WEB PAGE DESIGN	5905
5 days per week for two semester - 1 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
5 days per week for a 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 (11 th -12 th grade)	5923
5 days per week for a 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 (9th grade required)	5906
.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)

.5 credit

5907

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.

COMPUTER PROGRAMMING I, II (10th-12th grade)

5909, 5910

5 days per week for two semesters – 1 credit, weighted

These courses introduce 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

ENGLISH 9

9100

5 days per week for two semesters - 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 10

0100

5 days per week for two semesters - 1 credit

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- 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 10

0110

5 days per week for two semesters - 1 credit, weighted

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ENGLISH 11

1100

5 days per week for two semesters - 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 11

1110

5 days per week for two semesters - 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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ENGLISH 12

1200

5 days per week for two semesters – 1 credit

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- 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 12

1210

5 days per week for two semesters - 1 credit, weighted

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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 continue to develop the skills in reading, writing, speaking, and listening to master purposeful and independent expression.

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION 1213

5 days per week for two semesters – 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

5 days per week for two semesters – 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 (10th-12th grade)

5101

5 days per week for two semesters -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 II (11th-12th grade) Prerequisite: Journalism I

5102

5 days per week for two semesters -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 (12th grade) Prerequisite: Journalism II

5103

5 days per week for two semesters -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: (10th-12th grade)

5106

5 days per week for two semesters – 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, photo journalism, 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: (11th-12th grade)

5107-5108

5 days per week for two semesters – 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

5106

5 days per week for two semesters - 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 (Required 9th grade)

5700

5 days per week for one 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.

INTRODUCTION TO FOODS (10th-12th grade)

5702

5 days per week for two semesters – 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 (11th-12th grade) Prerequisite: Introduction to Foods

5703

5 days per week for two semesters – 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 (10th-12th grade)

5709

5 days per week for two semester - 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 (12th grade) Prerequisite: Intermediate Foods

5704

5 days per week for two semester - 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

PHYSICAL EDUCATION (Required every year)

5608

A or B Day for two semesters - .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. Achieving a positive attitude toward physical fitness. All students must change into appropriate gym clothes and participate in all activities.

INDEPENDENT PHYSICAL FITNESS (10th-12th grade)

5603

.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

5 days per week for two semesters - 1 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

A or B days for two semesters - .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.

MATH

ALGEBRA I

5305

5 days per week for two semesters -1 credit

Algebra I will include 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. Students will explore exponents and square roots, as well as multiplying and factoring polynomials and working with the four basic operations on rational expressions. Multiplying and factoring polynomials and working the four basic operations on rational expressions. Irrational solutions of the quadratic equation are developed. (Culminating event for the course will be the Keystone Algebra I Exam.).

KEYSTONE ALGEBRA (9th-10th grade)

5317

5 days per week for two semesters – 1 credit

Individual plan designed to meet the foundational skills needed to be successful with Algebra 1. CDT, common assessments, and direct instruction at the student's area of needs will be provided to support preparation for passing the Keystone Algebra I Exam.

ALGEBRA II Prerequisite: Algebra I and Geometry, may be taken concurrently with Geometry

5309

5 days per week for two semesters – 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 will 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

5 days per week for two semesters -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

5 days per week for two semesters – 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 students 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

5 days per week for two semesters – 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

5 periods per week for two semesters - 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

5 days per week for two semesters – 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. Students will receive the AP weighting only if the AP exam is taken. Students not taking the AP exam will receive the honors rating for the course.

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

5 days per week for two semesters – 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 5315

5 days per week for two semesters – 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

5 days per week for two semesters – 1 credit

The fundamental purpose is to formalize and expand the mathematics that students learned in the middle grades. 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. It uses 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 (Theatre Arts is a requirement for all 9th grade students.) 5804

5 days per week for one 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

5 days per week for two semesters - 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

3 days per week for two semesters - .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 at the school and various nursing homes. Competitive opportunities to challenge top vocalists are available at District, Regional and State levels. Grading is based on participation (daily and concert) as well as ability.

SENIOR HIGH BAND (9th-12th grade)

5803

5 days per week for two semesters - 1 credit

This group is open to all Senior High students who have participated in the Jr. High band program or those students who have transferred from another school band program. The goal of this course is to further the musical and performance skills of all those involved.

CHAMBER SINGERS/VOICE ENSEMBLE (9th-12th grade)

5806

(AUDITIONS ONLY)**5 days per week for two semesters - .5**

This class will be offered opposite Chorus. It is a mixed choir of limited numbers on each voice part (selected by audition). Students will be performing music at a more challenging level than Senior High Chorus. Opportunities through this class will include festivals at the District, Region, and State level, as well as, additional performances for the public and school functions. Students participating must also be scheduled for Senior High Chorus. Auditions will be completed prior to class scheduling. Student members must be able to match pitch, have excellent tonal memory, and their voices must blend well with the other members. Membership is determined by the choral director as evidenced by an audition.

SCIENCE

GLOBAL SCIENCE (Required 9th grade)

9400

5 days per week for two semesters – 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 (Required 10th grade)

0400

5 days per week for two semesters – 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: Biology and Chemistry I

5403

7 periods per week for two semesters - 1.5 credits, weighted

Advanced Placement Biology is equivalent to an entry-level Biology course in college addressing major biological themes and processes. 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. 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

7 periods per week for two semesters – 1.5 credits, 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

7 periods per week for two semesters – 1.5 credits, 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

5 periods per week for one 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 outside nighttime observations during the course.

EARTH PROCESSES Elective: (11th-12th grade) Prerequisite: Algebra 1 5421

5 periods per week for one semester - .5 credit

Earth Process is a course that examines the natural hazards that occur on Earth. The course will primarily focus on geologic processes and forces that formed and continue to affect Earth's surface. Earthquakes, volcanoes, mass wasting events and erosion processes are among the topics that will be discussed. The course will also focus on studying current natural hazard events including; earthquakes, volcanoes, landslides, and hurricanes as they occur.

EARTH AND SPACE SCIENCE Elective: (11th-12th grade) Prerequisite: Algebra 1 5412

5 days per week for two semesters - 1 credit

Earth Science is an academic course that covers the fundamental concepts of Astronomy, Geology & Meteorology. Dynamic processes such as earthquakes, volcanoes, weathering, planetary relationships, weather patterns, and severe storms will be examined in detail.

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

5 periods per week for one 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

7 periods per week for two semesters – 1.5 credits

Physics is an academic course for juniors and seniors. Topics covered in Physics include; mechanics, waves, light, electricity, and modern physics. Students wishing to major in any science, engineering, mathematics, or medicine should take physics. In addition to the subject matter, study habits and careful thinking are stressed.

Recommendation: Completed or be scheduled for Trigonometry at the same time as physics.

ADVANCED PLACEMENT PHYSICS/AP PHYSICS LAB 5407

7 periods per week – 1.5 credits, AP 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: Biology and Chemistry I 5408

5 days per week for two semesters – 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: Biology or Chemistry 5402

5 days per week for entire school 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

5 periods per week for 1 semester - .5 credit

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

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

5 periods per week for 1 semester - .5 credit

Principles of Technology, examines the fundamentals of electricity and magnetism. Laboratory investigations and problem solving are a major part of this course. Students planning on majoring in technical field should take Principles of Technology.

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

5 periods per week for 1 semester - .5 credit

Principles of Mechanics, examines the fundamentals of kinematics, forces, vector mechanics, and dynamics. Laboratory investigations and problem solving are a major part of the course. Students planning on majoring in a technical field should take Principles of Mechanics.

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

5 periods per week for 1 semester - .5 credit

The Science and Math of Food and Drugs 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

5 periods per week for 1 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

5 periods per week for 1 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 devices/products, including the design process from the prototype and clinical testing to market readiness.

SOCIAL STUDIES

AMERICAN CULTURES II (Required 9th grade)

9200

5 days per week for two semesters – 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

5 days per week for two semesters – 1 credit

American Cultures from 1933 to the present day 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. This course is to stress the events, policies, and issues that shaped the modern world.

WORLD HISTORY

1120

5 days per week for two semesters – 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 European, Asian, and Middle East, Russia and the Commonwealth of Independent States, and Western Africa.

AMERICAN GOVERNMENT

1221

5 days per week for one semester - .5 credit

Scheduled with Economics

This course is based on the assumption that it is absolutely 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 working of American government and economics as related items. These are studies in this manner rather than as a separate and related subject.

ECONOMICS

1220

5 days per week for one 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

5 periods per week for two semesters - 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. 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 (AP) WORLD HISTORY

5201

5 days per week for two semesters – 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 Realignments (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. 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.

PSYCHOLOGY (11th-12th grade)

5202

5 days per week for one semester - .5 credit Scheduled with Sociology

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

5 days per week for one semester- .5 credit Scheduled with Psychology

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

5 days per week for two semesters - 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 (11th-12th grade)

5209

5 days per week for one 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

5206

5 days per week for one 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.

Recommendation: Students should be in the 11th or 12th grade.

MILITARY HISTORY (10th-12th grade)

5210

5 days per week for one 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. It covers 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 will be integrated into the course as well. 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 (11th-12th grade)

5212

5 days per week for one 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. It includes the utilization of resource material such as, but not limited to, current books, magazines, films, documentaries, and TV.

TECHNOLOGY EDUCATION

FOUNDATIONS OF TECHNOLOGY (9th-12th grade)

5731

5 days per week for two semesters - 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

5 days per week for two semesters - 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

5 days per week for two semesters - 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 12th grade) Prerequisite: CAD II

5725

5 days per week for two semesters - 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 (12th grade) Prerequisite: CAD III

5726

5 days per week for two semesters - 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 5 days per week for two semesters - 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.	5720
MANUFACTURING II Prerequisite: Manufacturing 1 5 days per week for two semesters - 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.	5721
MANUFACTURING III Prerequisite: Manufacturing II 5 days per week for two semesters - 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.	5722
MULTIMEDIA TECHNOLOGY I: (9th- 12th grade) 5 days per week for two semesters - 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.	5727
MULTIMEDIA TECHNOLOGY II: (10th- 12th) Pre-requisite, Multimedia I 5 days per week for two semesters - 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.	5728
ENTERPRISE: (11th - 12th grade) Pre-requisite, CAD I or Foundations of Technology 5 days per week for two semesters - 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.	5742
ROBOTICS I, II (STEM) Elective: 9 th -12 th grades 5 periods per week for entire school 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.	5419, 5420

WORLD LANGUAGES

FRENCH I 5 days per week for two semesters - 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.	5501
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FRENCH II (10 th -12 th grade)	5502
5 days per week for two semesters - 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.	
FRENCH III (11 th -12 th grade)	5503
5 days per week for two semesters - 1 credit, weighted	
This course focuses on advanced grammar. Emphasis is placed on individual original expression, both written and oral. Culture is studied in greater depth.	
FRENCH IV (12 th grade)	5504
5 days per week for two semesters - 1 credit, weighted	
This course is the continued study of advanced grammar. It includes a refinement of communication skills through situational role-playing and advanced reading selections. Study of culture, history and literature is expanded.	
SPANISH I	5511
5 days per week for two semesters - 1 credit	
This course concentrates on surroundings and daily activities including: food, family, school and basic grammar of the Hispanic culture.	
SPANISH II (10 th -12 th grade)	5512
5 days per week for two semesters - 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 (11 th -12 th grade)	5513
5 days per week for two semesters - 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 (12 th grade)	5514
5 days per week for two semesters - 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.	

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

(Completion of this course meets one of the two computer science credits required for graduation)

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

(Completion of this course meets one of the two computer science credits required for graduation)

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

(Completion of this course meets one of the two computer science credits required for graduation)

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

(Completion of this course meets one of the two computer science credits required for graduation)

Commercial Art seeks to provide students with the foundational skills that are required for dozens of occupations within the communication arts. It is now a requirement for future commercial designers to obtain a college degree with the chosen discipline. While it may be assumed that computer and technology skills is what is most important, this is actually anything but the truth. 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. While students gain valuable computer skills, often on a higher level than is taught at many university programs, the philosophy of the program is that computer skills are meaningless without the student approaching these tools as a n artist.

COSMETOLOGY (grades 10, 11, & 12)

VT20/21

(Completion of this course meets one of the two computer science credits required for graduation)

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 educator, sales representative, color specialists, artistic directors, a business owner or many other opportunities.

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

VT07/08

(Completion of this course meets one of the two computer science credits required for graduation)

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

(Completion of this course meets one of the two computer science credits required for graduation)

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

(Completion of this course meets one of the two computer science credits required for graduation)

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

(Completion of this course meets one of the two computer science credits required for graduation)

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

(Completion of this course meets one of the two computer science credits required for graduation)

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

(Completion of this course meets one of the two computer science credits required for graduation)

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

(Completion of this course meets one of the two computer science credits required for graduation)

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)

(Completion of this course meets one of the two computer science credits required for graduation)

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

(Completion of this course meets one of the two computer science credits required for graduation)

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

(Completion of this course meets one of the two computer science credits required for graduation)

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

(Completion of this course meets one of the two computer science credits required for graduation)

The precision machining curriculum is designed to provide instruction in setting up and operating industrial type machinery. A machinist is a skilled worker who, working from blueprints and written specifications, can operate all kinds of machine tools to cut, drill, grind, or otherwise shape and size with an extremely high degree of accuracy. Blueprint reading is emphasized in the first year. Students enrolled in precision machining are required to take an academic math course each year they are in this shop.

Toolmakers and die makers are skilled workers who provide tools and special guiding and holding devices that are used to mass-produce a variety of machined metal parts. They specialize in producing jigs and dies, usually on a "one-of-a-kind" basis. 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. All machines and instruments are of the heavy duty type used in industry. One hour of related theory will be provided for every six hours in the shop.

The Precision Machining curriculum is designed to provide Entry Level instruction in setting up and operating industrial type machinery. A machinist is a skilled worker who, working from blueprints, and written/verbal specifications, can operate all kinds of machine tools to cut, drill, grind, or otherwise shape and size material with an extremely high degree of accuracy to make the part to the print.

Machinists and toolmakers are skilled workers who provide tools and special guiding and holding devices that are used to mass-produce a variety of machined parts. Using basic manual machines, advanced CNC machine tools and precision measuring instruments, students work with the metals and alloys commonly used in manufacturing and hold tolerances acceptable in industry.

In this course, the student will develop a basic knowledge of machine operation, standard shop practices, blueprint reading, metal processes, heat treating and related mathematics. All machines and instruments are commonly used in industry. One hour of related theory will be provided for every six hours in the shop. The students practice their skills by making precision tools which they get to keep and use in their career in the machining industry.

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.